

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0136  
Expires December 31, 1991

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

5. LEASE DESIGNATION AND SERIAL NO.  
**ML-3068**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
**Brennan Bottom Unit**

8. FARM OR LEASE NAME, WELL NO.  
**Brennan Federal #10**

9. API WELL NO.

10. FIELD AND POOL, OR WILDCAT  
**Brennan Bottom**

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
**SEC.19-T7S-R21E, SLBM**

12. COUNTY OR PARISH  
**Uintah**

13. STATE  
**UT**

1a. TYPE OF WORK  
DRILL  DEEPEN

b. TYPE OF WELL  
OIL GAS- SINGLE MULTIPLE  
WELL  WELL  OTHER \_\_\_\_\_ ZONE  ZONE

2. NAME OF OPERATOR  
**Chevron U.S.A. Production Company, Inc.**

3. ADDRESS AND TELEPHONE NO.  
**11002 E. 17500 S. Vernal, Utah 84078 (801) 781-4300**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)  
At surface  
**660' FNL & 1980' FEL, NWNE**  
At proposed prod. Zone  
**Same**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
**±28 miles south of Vernal, Utah**

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.  
**660'**  
(Also to nearest drlg. Unit line, if any)

16. NO. OF ACRES IN LEASE  
**40**

17. NO. OF ACRES ASSIGNED TO THIS WELL  
**NA**

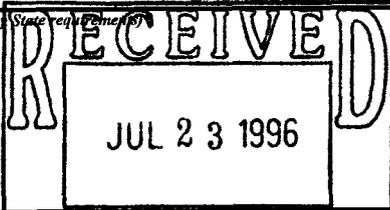
18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
**NA**

19. PROPOSED DEPTH  
**7200'**

20. ROTARY OR CABLE TOOLS  
**Rotary**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**4693' GL**

22. APPROX. DATE WORK WILL START\*  
**August 1, 1996**



PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	K-55 8-5/8"	24#	600'	300 SX. CLASS A
7-7/8"	N-80 5-1/2"	17#	7200'	665 SX. HI-FILL STD. LEAD, 720 SX. CLASS H TAIL

Attachments: Certified Plat  
8 Point Drilling Plan  
13 Point Surface Use Plan  
Self-certification Statement

24. SIGNED [Signature] TITLE ASSET TEAM LEADER DATE 7-18-96

(This space for Federal or State office use)

PERMIT NO. 43-047-32771 APPROVAL DATE \_\_\_\_\_

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY

APPROVED BY [Signature] TITLE Permitting Engineer DATE 9/4/96

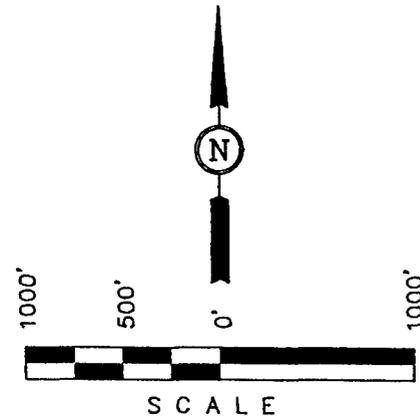
\*See Instructions On Reverse Side

**CHEVRON U.S.A., INC.**

Well location, BRENNAN FEDERAL UNIT #10, located as shown in the NW 1/4 NE 1/4 of Section 19, T7S, R21E, S.L.B.&M. Uintah County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT THE NORTHEAST CORNER OF SECTION 19, T7S, R21E, S.L.B.&M. TAKEN FROM THE BRENNAN BASIN, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4698 FEET.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*Robert L. Gray*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161319  
 STATE OF UTAH

<b>UINTAH ENGINEERING &amp; LAND SURVEYING</b> 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (801) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 6-17-96	DATE DRAWN: 6-18-96
PARTY B.B. J.F. C.B.T.	REFERENCES G.L.O. PLAT	
WEATHER HOT	FILE CHEVRON U.S.A., INC.	

R  
20  
E

**T7S, R21E, S.L.B.&M.**

East 1/4 Cor.  
Sec 18 1953  
Brass Cap

N00°34'E - G.L.O.  
(Basis of Bearings)  
2651.63' (Measured)

N89°53'43"E - 2475.24' (Meas.)      N89°50'54"E - 2647.69' (Meas.)

1950 Brass Cap      1950 Brass Cap      1950 Brass Cap

**BRENNAN FEDERAL UNIT #10**  
Elev. Ungraded Ground = 4693'

1980'

660'

N00°09'E - 83.06 (G.L.O.)

Lot 2      Lot 3      Lot 4      Lot 5

19

GREEN RIVER

S00°51'48"E - 3193.83' (Meas. to WC)

W.C. 1950  
Brass Cap

Lot 9      Lot 8      Lot 7      Lot 12

N00°55'W - 35.08 (G.L.O.)

Lot 10      Lot 13      Lot 11

N89°11'E - 79.11 (G.L.O.)

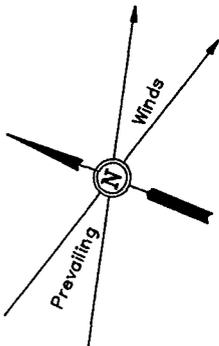
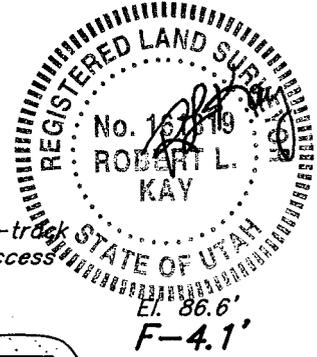
LEGEND:

- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- = SECTION CORNERS LOCATED.

CHEVRON USA., INC.

LOCATION LAYOUT FOR

BRENNAN FEDERAL UNIT #10  
SECTION 19, T7S, R21E, S.L.B.&M.  
660' FNL 1980' FEL



SCALE: 1" = 50'  
DATE: 6-19-96  
Drawn By: C.B.T.

**NOTE:**

FLARE PIT IS TO BE LOCATED A MINIMUM OF 100' FROM THE WELL HEAD.

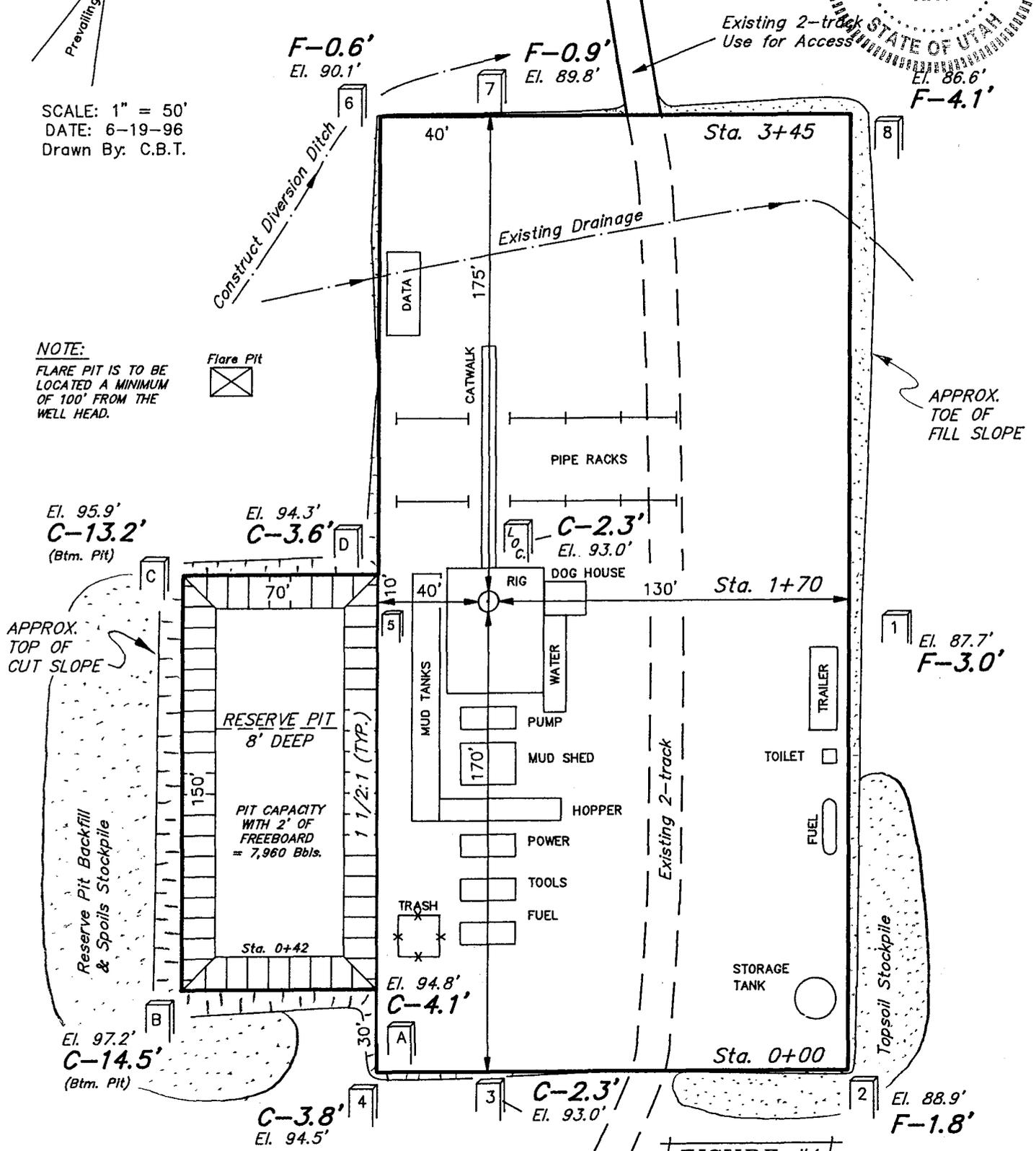


FIGURE #1

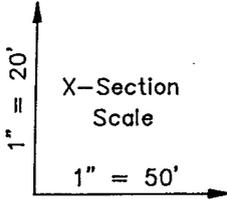
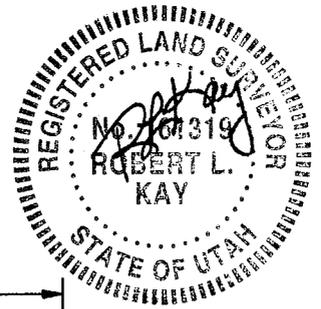
Elev. Ungraded Ground at Location Stake = 4693.0'  
Elev. Graded Ground at Location Stake = 4690.7'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (801) 789-1017

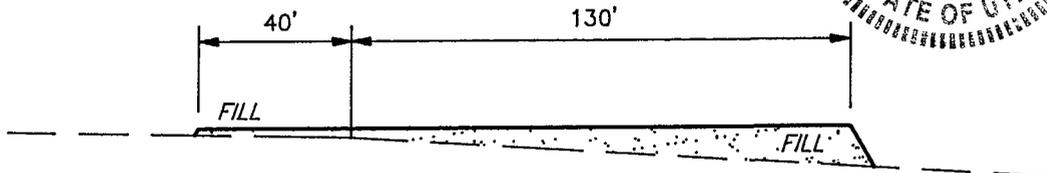
CHEVRON USA., INC.

TYPICAL CROSS SECTIONS FOR

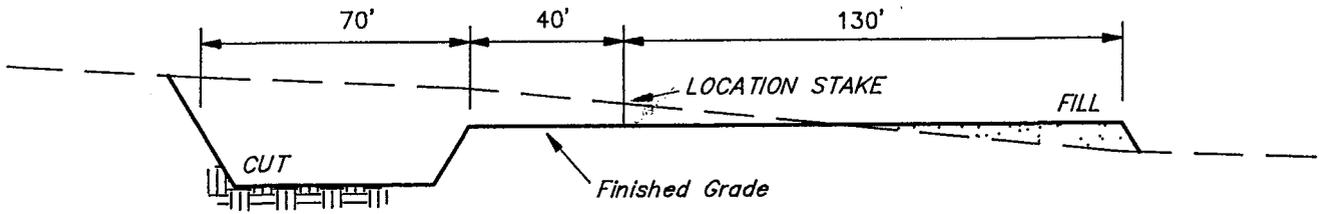
BRENNAN FEDERAL UNIT #10  
SECTION 19, T7S, R21E, S.L.B.&M.  
660' FNL 1980' FEL



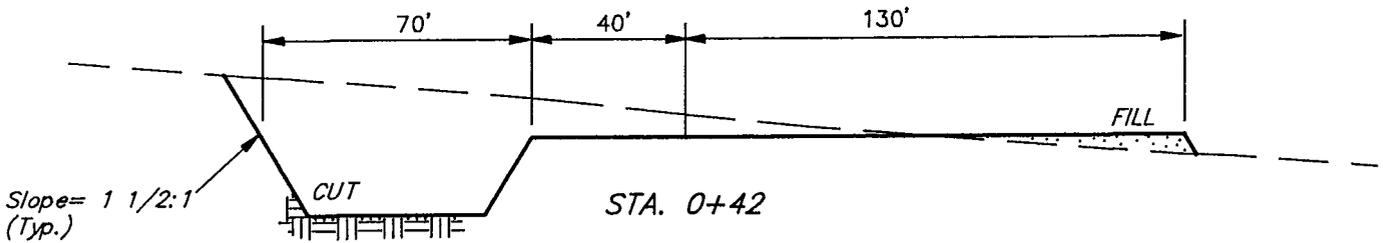
DATE: 6-19-96  
Drawn By: C.B.T.



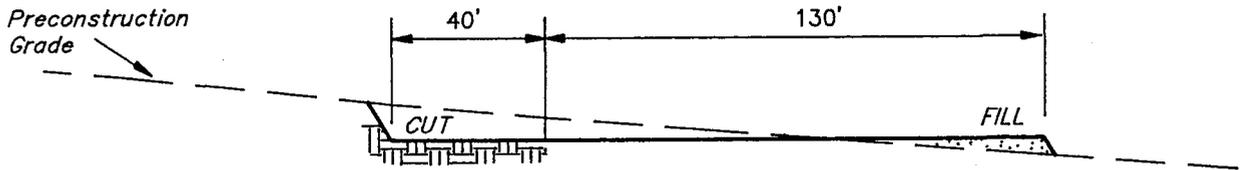
STA. 3+45



STA. 1+70



STA. 0+42



STA. 0+00

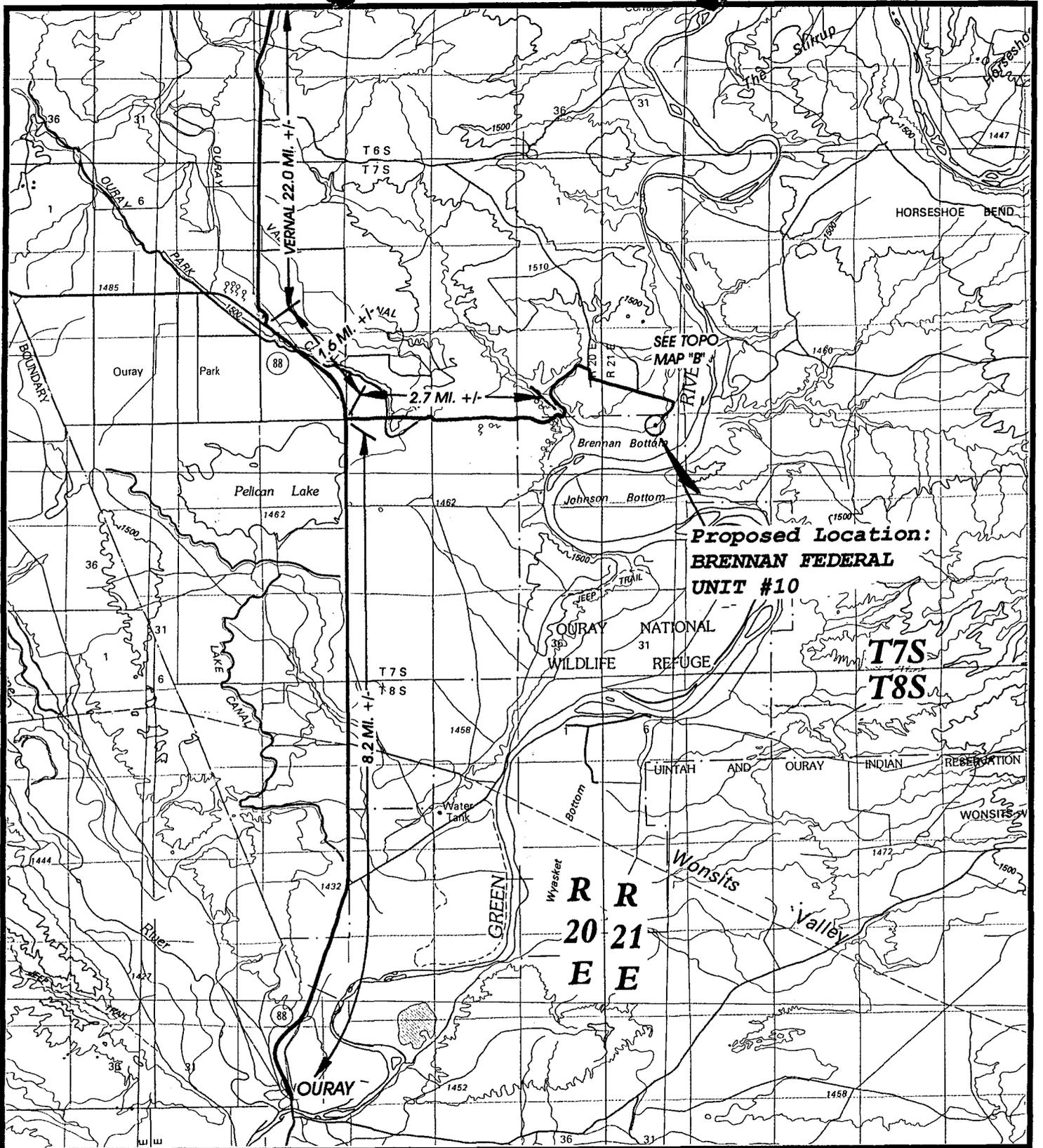
FIGURE #2

APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 1,280 Cu. Yds.
Remaining Location	= 5,390 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 6,670 CU.YDS.</b>
<b>FILL</b>	<b>= 3,980 CU.YDS.</b>

EXCESS MATERIAL AFTER 5% COMPACTION	= 2,480 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 2,480 Cu. Yds.
EXCESS CUT MATERIAL	= 0 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (801) 789-1017



**Proposed Location:  
BRENNAN FEDERAL  
UNIT #10**

**T7S  
T8S**

**R R  
20 21  
E E**

**UELS**

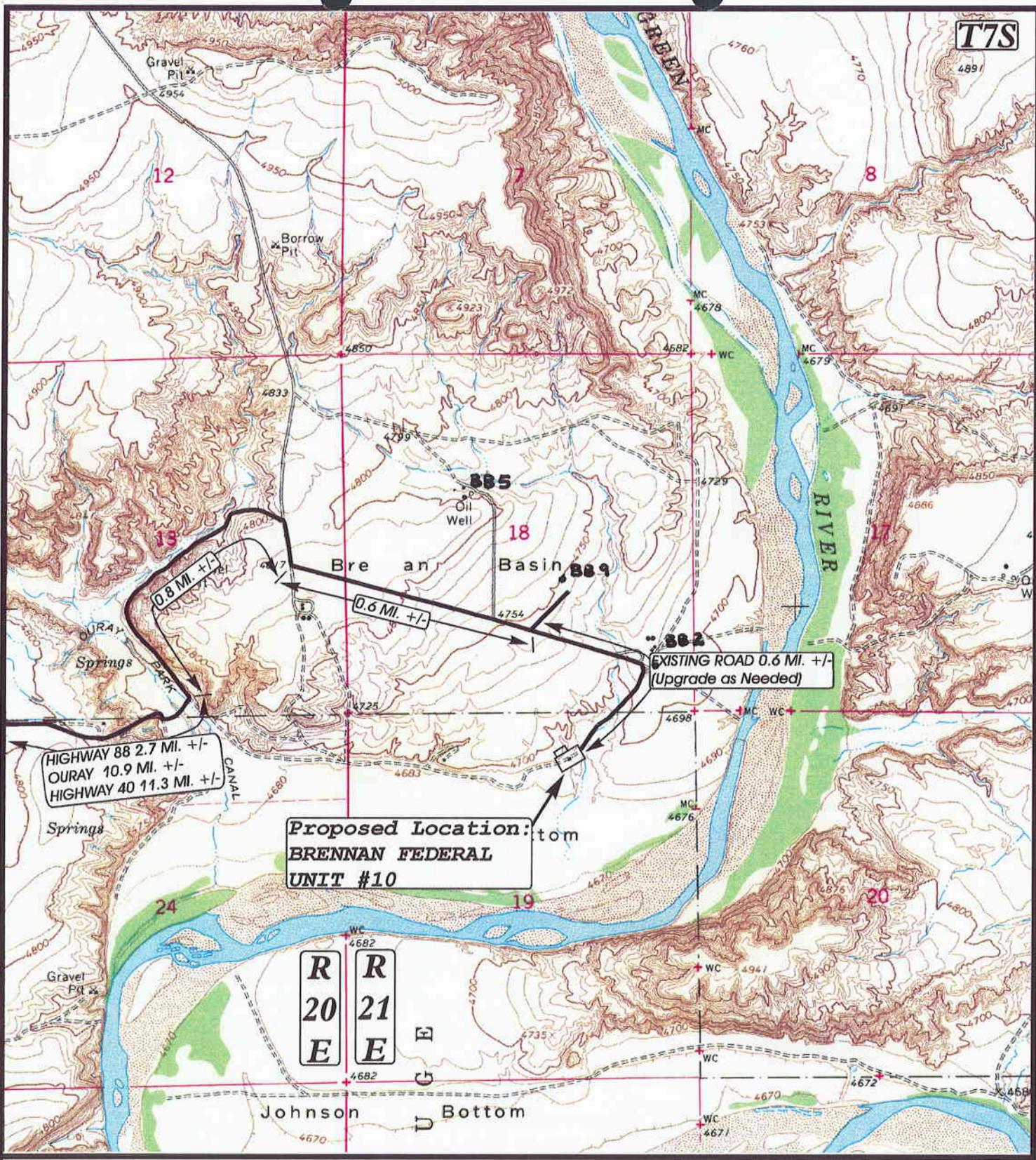
**TOPOGRAPHIC  
MAP "A"**

DATE: 6-18-96  
Drawn by: C.B.T.



**CHEVRON USA, INC.**

**BRENNAN FEDERAL UNIT #10  
SECTION 19, T7S, R21E, S.L.B.&M.  
660' FNL 1980' FEL**



**Proposed Location:**  
**BRENNAN FEDERAL**  
**UNIT #10**

**EXISTING ROAD 0.6 MI. +/-**  
**(Upgrade as Needed)**

**HIGHWAY 88 2.7 MI. +/-**  
**OURAY 10.9 MI. +/-**  
**HIGHWAY 40 11.3 MI. +/-**

**TOPOGRAPHIC**  
**MAP "B"**

**DATE: 6-18-96**  
**Drawn by: C.B.T.**

**UINTAH ENGINEERING & LAND SURVEYING**  
 85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017



**SCALE: 1" = 2000'**

**CHEVRON USA, INC.**

**BRENNAN FEDERAL UNIT #10**  
**SECTION 19, T7S, R21E, S.L.B.&M.**  
**660' FNL 1980' FEL**

**CHEVRON USA PRODUCTION CO.**

**BRENNAN FEDERAL #10  
660' FNL, 1980' FEL  
NWNE-S19-T7S-R21E  
UINTAH COUNTY, UTAH**

**EIGHT POINT DRILLING PLAN**

**1. ESTIMATED FORMATION TOPS:**

Uinta	Surface
Green River	~2995'
Oil Shale	~4653'
G1 Lime	~6498'
H4a Marker	~6778'
Wasatch	~6843'

**2. ESTIMATED DEPTHS OF TOP AND BOTTOM OF WATER, OIL, GAS, OR OTHER MINERAL BEARING FORMATIONS AND PLAN FOR PROTECTION:**

**Deepest Fresh Water:** ~1750', Uinta Formation.

**Oil Shale:** Oil shale is expected between depths of ~4653-4993'.

**Oil:** Oil is expected in several intervals between the depths of 6498' and 6943'.

**Gas:** Minor shows may be encountered below ~2500'.

**Protection of oil, gas, water, or other mineral bearing formations:**  
Protection shall be accomplished by cementing surface casing and production casing back to the surface or to depths sufficient to isolate required formations. Please refer to casing and cement information for protection plans.

**3. PRESSURE CONTROL EQUIPMENT:**

**For drilling 12-1/4" surface hole to 600':**

No BOP equipment required.

## BRENNAN FEDERAL #10 - EIGHT POINT DRILLING PLAN

### For drilling through 8.625" surface casing to TD:

Maximum anticipated surface pressure <1600 psi

Pressure control equipment shall be in accordance with BLM minimum standards for 3000 psi equipment.

A casing head with an 11", 3000 psi flange will be welded onto the 8.625" surface casing.

BOP stack will consist of a double gate and annular preventor. The double gate will be equipped with pipe rams on bottom and blind rams on top. The choke and kill lines will be connected to outlets between the bottom and top rams, utilizing either the ram body outlets or a drilling spool with side outlets. The BOP stack will be 9" or 11" bore, 3000 psi working pressure. The choke and kill lines will be 2" or 3" bore, 3000 psi working pressure. Please refer to attached schematics.

Test procedure and frequency shall be in accordance with BLM minimum standards for 3000 psi equipment.

#### 4. SUPPLEMENTAL DRILLING EQUIPMENT AND CASING INFORMATION:

##### Casing Information:

Casing	Conn.	New/ Used	Stage Tool	Centralizers
8.625"	STC	New	None	10' above shoe, on 1st and 3rd collars
5.5"	LTC	New	None	10' above shoe, every other collar to top of pay

##### Cement Information:

**8.625" Casing:** Oilfield type cement circulated in. Class A single slurry mixed to 15.6 ppg, yield = 1.19 cf/sx. Fill to surface with 357 cf (300 sx). Tail plug used. Allowed to set under pressure.

## BRENNAN FEDERAL #10 - EIGHT POINT DRILLING PLAN

**5.5" Casing:** Lead/tail oilfield type cement circulated in.

Tail slurry - 50/50 Class H/pozzolan + 2% gel + additives as required mixed to 14.1 ppg, yield = 1.23 cf/sx; or Class G + 12.5 lb/sx. gilsonite + additives as required mixed to 14.8 ppg, yield = 1.34 cf/sx. Fill to ~6100' (~500' above top of pay) with 312 cf (254 sx. or 233 sx.).

Lead slurry - Class A + extender + additives mixed to 11.0 ppg, yield = 3.82 cf/sx. Fill to surface using ~1602 cf (419 sx.).

Tail plug used. Allowed to set under pressure.

### **Drilling Equipment:**

Surface hole will be drilled and surface casing set with a small rotary surface hole rig.

A rotating head may be used while drilling below surface casing for control of gas cut mud.

### **5. CIRCULATING MEDIUM, MUD TYPE, MINIMUM QUANTITIES OF WEIGHT MATERIAL, AND MONITORING EQUIPMENT:**

Surface hole will be drilled with air, air/mist, foam or mud depending on hole conditions. Drilling below surface casing will be with water based drilling fluids consisting primarily of fresh water, bentonite, lignite, caustic, lime, soda ash, and polymers. No chromates will be used. It is not intended to use oil in the mud, however, in the event it is used, oil concentration will be less than 4% by volume. Maximum anticipated mud weight is ~9.5 ppg.

No minimum quantity of weight material will be required to be kept on location.

PVT/Flow Show will be used from base of surface casing to TD.

Gas detector will be used from base of surface casing to TD.

## BRENNAN FEDERAL #10 - EIGHT POINT DRILLING PLAN

### 6. ANTICIPATED TYPE AND AMOUNT OF TESTING, LOGGING, AND CORING:

#### Logging:

Mud logging	~560' to TD
Gamma Ray	TD to ~560'
Spontaneous Potential	TD to ~560'
Induction	TD to ~560'
Density/Neutron	TD to 3500'
Sonic	None
Formation Micro Imager	None
Magnetic Resonance Imager	TD to 6447'

**Coring:** None

**Testing:** None planned.

### 7. EXPECTED BOTTOM HOLE PRESSURE AND ANY ANTICIPATED ABNORMAL PRESSURE, TEMPERATURES, OR OTHER HAZARDS (H<sub>2</sub>S, STEAM, ETC.) AND ASSOCIATED CONTINGENCY PLANS:

Normal pressure gradient to TD, although target interval may be slightly pressure depleted. Drill with water or unweighted mud.

Maximum expected BHP @ 7200': ~3118 psi (~0.433 psi/ft.).

Maximum expected BHT @ 7200': ~165° F.

No abnormal hazards are anticipated and no contingency plans are required.

### 8. OTHER:

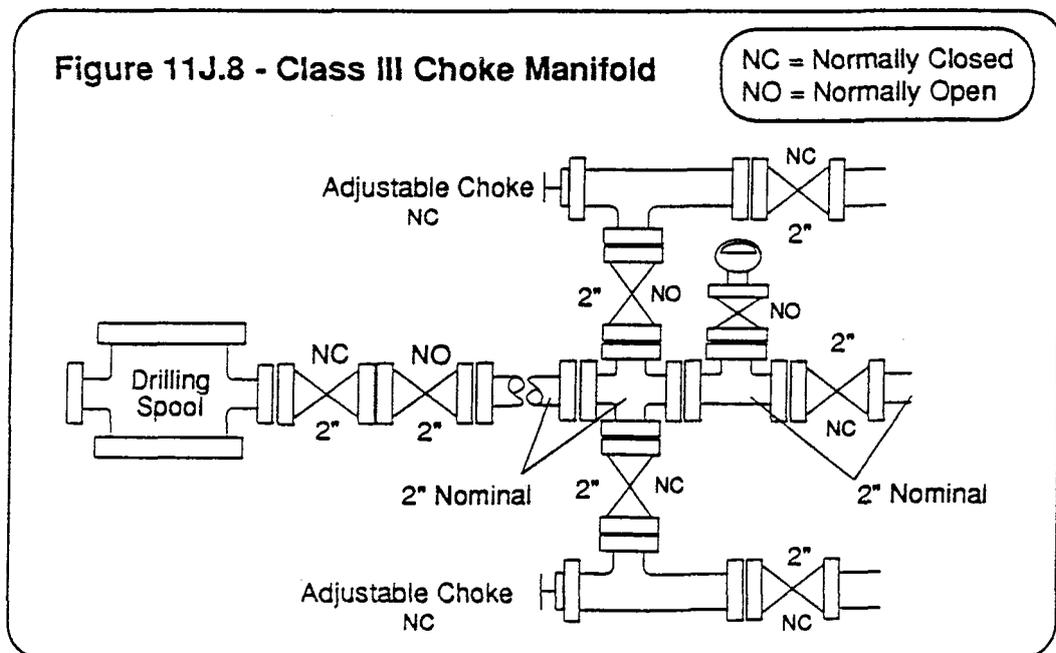
None.

CHEVRON DRILLING REFERENCE SERIES  
 VOLUME ELEVEN  
 WELL CONTROL AND BLOWOUT PREVENTION

**D. CLASS III CHOKE MANIFOLD**

The Class III choke manifold is suitable for Class III workovers and drilling operations. The Standard Class III choke manifold is shown in Figure 11J.8 below. Specific design features of the Class III manifold include:

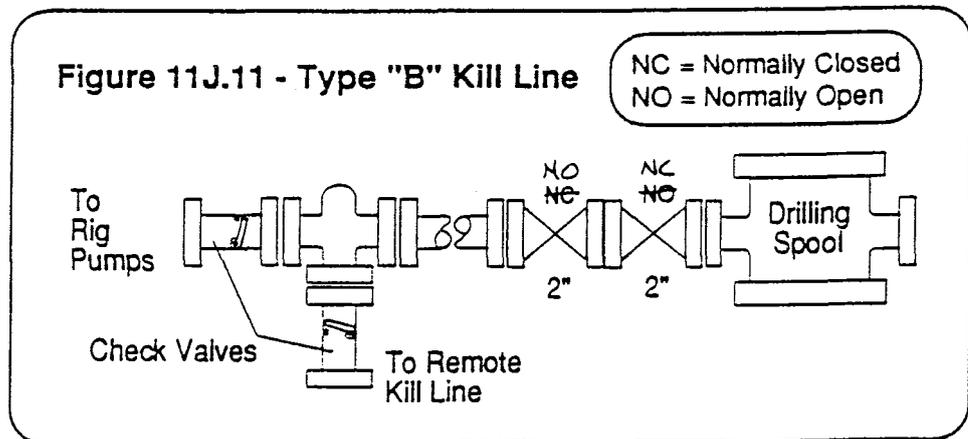
1. The manifold is attached to a drilling spool or the top ram preventer side outlet.
2. The minimum internal diameter is 2" (nominal) for outlets, flanges, valves and lines.
3. Includes two steel gate valves in the choke line at the drilling spool outlet. The inside choke line valve may be remotely controlled (HCR).
4. Includes two manually adjustable chokes which are installed on both side of the manifold cross. Steel isolation gate valves are installed between both chokes and the cross, and also downstream of both chokes.
5. Includes a bleed line which runs straight through the cross and is isolated by a steel gate valve.
6. Includes a valve isolated pressure gauge suitable for drilling service which can display the casing pressure within view of the choke operator.
7. Returns through the choke manifold must be divertible through a mud-gas separator and then be routed to either the shale shaker or the reserve pit through a buffer tank or manifold arrangement.
8. If the choke manifold is remote from the wellhead, a third master valve should be installed immediately upstream of the manifold cross.



D. TYPE "B" KILL LINE — CLASS III, IV , AND V WELLS

The type B kill line described below in Figure 11J.11 is the minimum recommended hookup for installation on all Class III, Class IV and Class V wells. Specific design features of the type B kill line include:

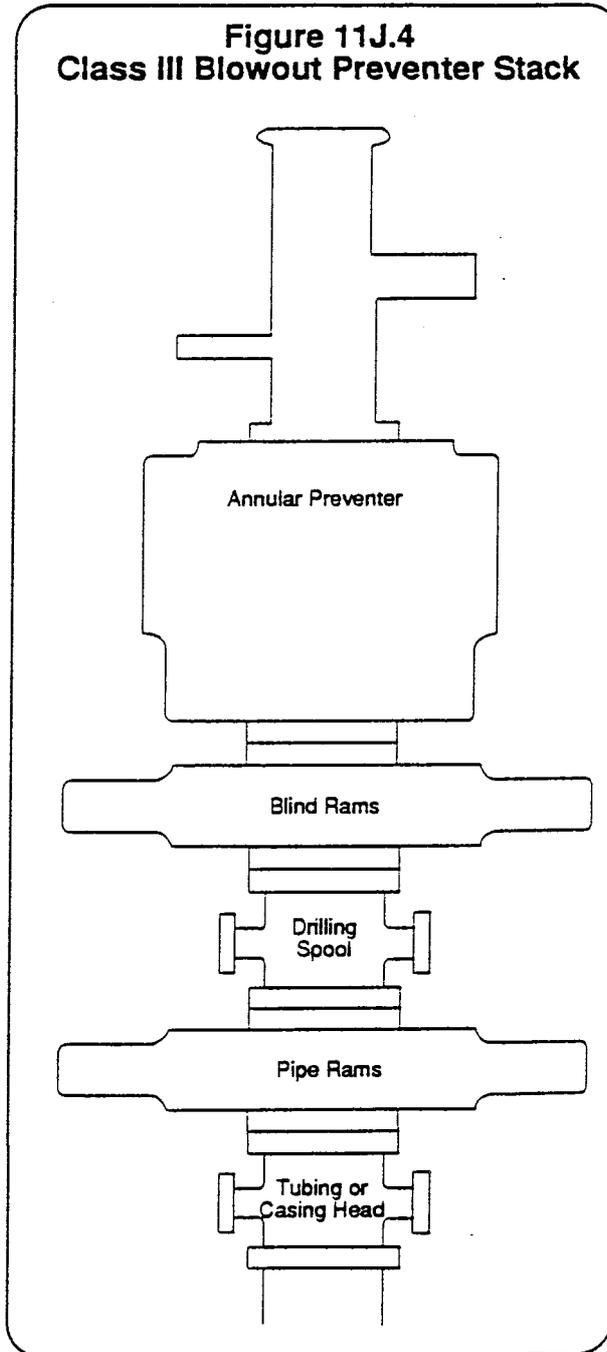
1. The preferred kill line connection to the well is at the drilling spool, however, a preventer side outlet may be used when space restrictions exclude the use of a drilling spool. In all cases, the kill line must be installed below the uppermost blind rams so the well can be pumped into with no pipe in the hole.
2. The arrangement includes two - 2" (nominal) gate valves installed at the drilling spool and an upstream fluid cross. The outside valve may be hydraulically remote controlled.
3. Two pump-in lines should be attached to the fluid cross. The **primary kill line** should be routed to the rig standpipe where it can be manifolded to the rig pumps. The **remote kill line** should be run to a safe location away from the rig or to the rig cementing unit. The remote kill line should have a loose end connection for rigging-up a high pressure pumping unit.
4. Both the primary kill line and the remote kill line must include a 2" check valve which is in working condition while drilling. If a check valve is crippled for testing purposes, the flapper or ball must be re-installed and tested before drilling resumes.
5. The primary kill line must include a pressure gauge which can display the pump-in pressure on the rig floor.
6. Any lines which are installed at the wellhead are designated as "**emergency kill lines**" and should only be used if the primary and remote kill lines are inoperable.



E. CLASS III BLOWOUT PREVENTER STACK:

The Class III preventer stack is designed for drilling or workover operations. It is composed of a single hydraulically operated annular preventer on top, then a blind ram preventer, a drilling spool, and a single pipe ram preventer on bottom. The choke and kill lines are installed onto the drilling spool and must have a minimum internal diameter of 2". All side outlets on the preventers or drilling spool must be flanged, studded, or clamped. An emergency kill line may be installed on the wellhead. A double ram preventer should only be used when space limitations make it necessary to remove the drilling spool. In these instances, the choke manifold should be connected to a flanged outlet between the preventer rams only. In this hookup, the pipe rams are considered master rams only, and cannot be used to routinely circulate out a kick. The Class III blowout preventer stack is shown to the right in Figure 11J.4.

**Figure 11J.4**  
**Class III Blowout Preventer Stack**



**CHEVRON USA PRODUCTION CO.**

**BRENNAN FEDERAL #10  
660' FNL & 1980' FEL  
NWE-S19-T7S-R21E, SLB&M  
UINTAH COUNTY, UTAH**

**THIRTEEN POINT SURFACE USE PLAN**

**1. EXISTING ROADS:**

A. See Topographic Map A. There are no plans to change, alter or improve upon any existing state or county road.

B. See Topographic Map A. Proposed access road begins approximately 27.7 miles from Vernal, UT.

**2. ACCESS ROADS TO BE CONSTRUCTED OR RECONSTRUCTED:**

See Topographic Maps A and B. An existing road ~0.6 mile will be upgraded. An access road approximately 0.6 mile in length is proposed.

**3. LOCATION OF EXISTING WELLS WITHIN ONE MILE:**

See Topographic Map B.

**4. LOCATION OF EXISTING OR PROPOSED FACILITIES IF WELL IS PRODUCTIVE:**

A. See Topographic Map B.

B. Rod pumping equipment, a line heater and production tankage will be installed on the location.

C. Disturbed areas no longer needed for operations will be graded back to as near original state as possible. Drainage channels will be returned to original state and the areas will be reseeded as prescribed by the BLM.

D. A cathodic protection system will be installed on location following well completion.

## **BRENNAN FEDERAL #10 - THIRTEEN POINT SURFACE USE PLAN**

### **5. LOCATION AND TYPE OF WATER SUPPLY:**

Water from the following sources will be used:

A. Wonsits Valley Federal Unit water supply wells, July 2, 1965 Application #A-4646, paragraph 16.

1. 2471' South & 2122' East of the NW corner of Sec. 6-T8S-R21E, SLBM.
2. 2473' South & 2272' East of the NW corner of Sec. 6-T8S-R21E, SLBM.
3. 2474' South & 2422' East of the NW corner of Sec. 6-T8S-R21S, SLBM.

B. Water well in Ouray operated by A-1 Tank and Brine, Permit #43-8496.

1. East 400'. North 200' from S1/4 Cor. Sec. 32-T4s-R3E, USBM, Uintah County, Utah.

C. City water from Ouray provided by and via Ouray Brine's facility in Ouray. No permit.

Transportation of water shall be by tank truck.

### **6. CONSTRUCTION MATERIALS:**

Native dirt and gravel will be used as construction materials.

### **7. METHODS FOR HANDLING WASTE DISPOSAL:**

A. A reserve pit will be constructed to contain excess drilling fluids.

B. Excess reserve pit fluid will be disposed of via evaporation, percolation at pit abandonment or haul-off to a commercial disposal facility.

C. Drill cuttings will be caught and settled in the reserve pit and buried when the pit is backfilled.

D. Commercial service will provide portable toilets and haul-off to a commercial disposal facility.

## **BRENNAN FEDERAL #10 - THIRTEEN POINT SURFACE USE PLAN**

E. Trash will be stored in trash containers and hauled to commercial or municipal facility for disposal.

F. It is not anticipated that any salt or chemicals will need to be disposed of. If required, disposal will be by commercial disposal facility.

G. In the event fluids are produced, any oil will be transferred to existing facilities within Brennan Bottom Unit and sold. Any water will be transferred to Red Wash Unit disposal facilities.

H. Hazardous chemicals 10,000lb. of which will most likely be used, produced, stored, transported or disposed of in association with the proposed action of drilling, completing and producing this well: We anticipate that none of the hazardous chemicals in quantities of 10,000 lb. or more will be associated with these operations.

I. Extremely hazardous substances threshold quantities of which will be used, produced, stored, transported or disposed of in association with the proposed action of drilling, completing and producing this well: We anticipate that none of the extremely hazardous substances in threshold quantities per 40 CFR 355 will be associated with these operations.

### **8. ANCILLARY FACILITIES:**

None.

### **9. WELLSITE LAYOUT:**

A. See Figures 1 and 2.

B. Burn pit will not be lined.

C. Access to the well pad will be as shown on Topographic Map B.

## **BRENNAN FEDERAL #10 - THIRTEEN POINT SURFACE USE PLAN**

### **10. PLAN FOR RESTORATION OF SURFACE:**

A. All surface areas not required for production operations will be graded to as near original condition as possible and contoured to maintain possible erosion to a minimum. Any rock encountered in excavation will be disposed of beneath backfill to return surface to its present appearance and provide soil for seed growth.

B. The topsoil will be evenly distributed over the disturbed areas. Reseeding will be performed as directed by the BLM.

C. Pits that would present a hazard to wildlife or livestock will be backfilled when the rig is released and removed.

D. Completion of the well is planned during 1996. Rehabilitation will commence following completion of the well. If the wellsite is to be abandoned, all disturbed areas will be recontoured to the natural contour as soon as possible.

### **11. SURFACE OWNERSHIP:**

The wellsite, access roads and production facilities are constructed on state lands. The operator shall contact the State office at (801) 538-5277 between 24 and 48 hours prior to construction activities.

### **12. OTHER INFORMATION:**

A. The well is located in hilly and sandy terrain. Vegetation consists of sagebrush and natural grasses around the location. The soil is a poorly developed, semi-arid, thin topsoil layer over the Uintah Formation.

B. Surface use activities other than the oil and gas well facilities consist of grazing.

C. There are no occupied dwellings near the wellsite.

**BRENNAN FEDERAL #10 - THIRTEEN POINT SURFACE USE PLAN**

**13. COMPANY REPRESENTATIVE:**

Mr. J. T. Conley  
11002 East 17500 South  
Vernal, UT 84078  
(801) 781-4301

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Chevron USA Production Co., Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

7-18-96  
**Date**

  
**J. T. Conley**  
**Red Wash Asset Team Leader**

United States Department of the Interior  
Bureau of Land Management  
Vernal District Office  
170 South 500 West  
Vernal, UT 84078

**SELF-CERTIFICATION STATEMENT**

Be advised that Chevron USA Production Company is considered to be the operator of Brennan Federal Unit #10, NWNE-Sec.19-T7S-R21E, Uintah County, Utah, and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by Nationwide Bond #U-89-75-81-34 (Standard Oil Co. of California and its wholly owned subsidiary Chevron USA Production Co., as co-principals) via surety consent as provided for in 43 CFR 3104.2.

Sincerely,

  
\_\_\_\_\_  
J. T. Conley  
Red Wash Area Team Leader

DATE: 7-18-96

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 07/23/96

API NO. ASSIGNED: 43-047-32771

WELL NAME: BRENNAN FEDERAL #10  
OPERATOR: CHEVRON (N0210)

PROPOSED LOCATION:  
NWNE 19 - T07S - R21E  
SURFACE: 0660-FNL-1980-FEL  
BOTTOM: 0660-FNL-1980-FEL  
UINTAH COUNTY  
UNDESIGNATED FIELD (002)

LEASE TYPE: STA  
LEASE NUMBER: ML - 3068

PROPOSED PRODUCING FORMATION: GRRV

INSPECT LOCATION BY: 08/01/96

TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

RECEIVED AND/OR REVIEWED:

Plat  
 Bond: Federal  State  Fee []  
(Number U 89-75-91-89)  
 Potash (Y/N)  
 Oil shale (Y/N)  
 Water permit  
(Number 43-8496)  
 RDCC Review (Y/N)  
(Date: \_\_\_\_\_)

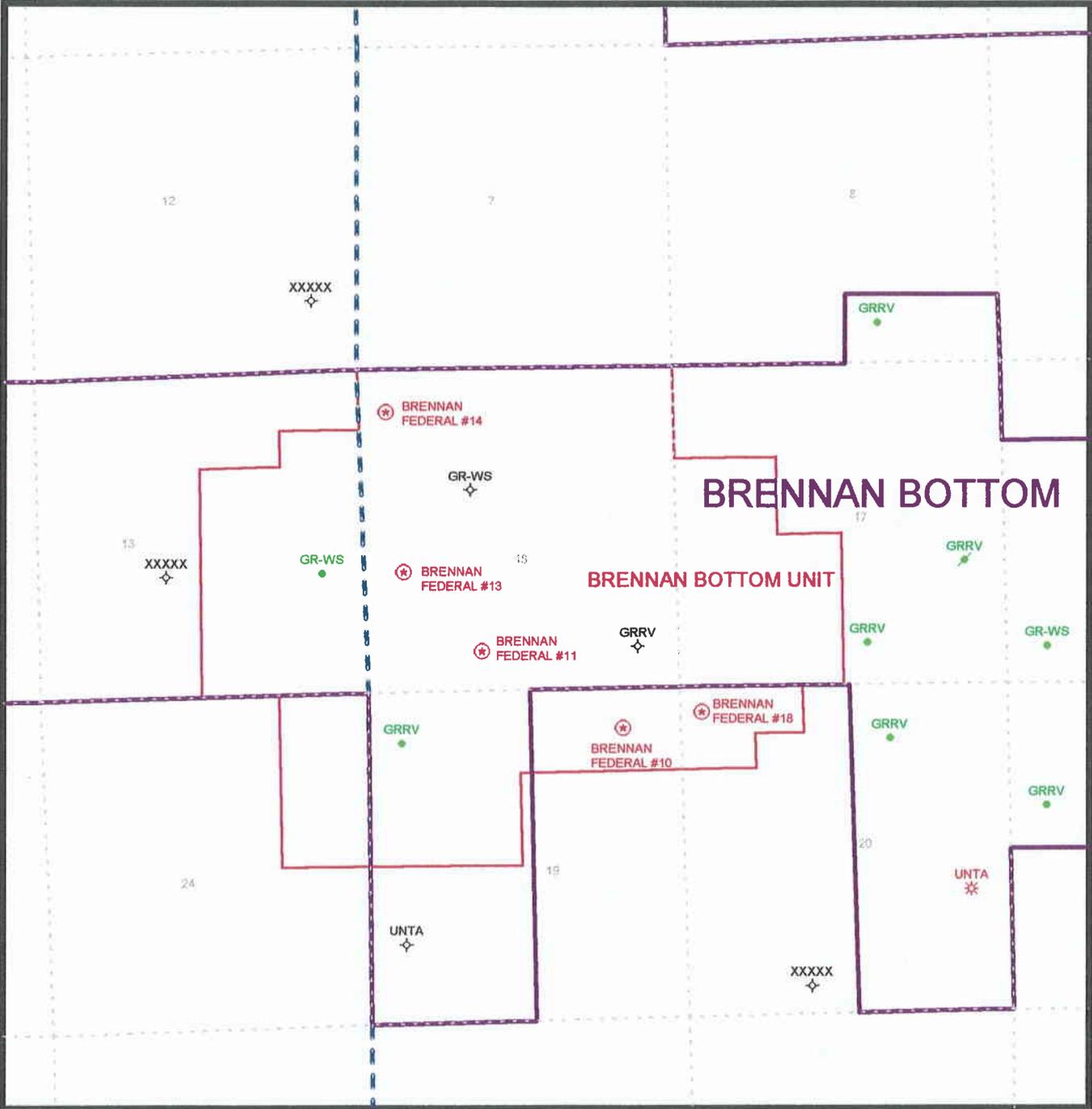
LOCATION AND SITING:

R649-2-3. Unit: BRENNAN BOTTOM  
\_\_\_\_ R649-3-2. General.  
\_\_\_\_ R649-3-3. Exception.  
\_\_\_\_ Drilling Unit.  
\_\_\_\_ Board Cause no: \_\_\_\_\_  
\_\_\_\_ Date: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

STIPULATIONS: \_\_\_\_\_

OPERATOR: CHEVRON  
FIELD: BRENNAN BOTTOM (560)  
SEC, TWP, RNG: SEC. 18, 19, 20 T7S, R21E  
COUNTY: UINTAH  
UAC: R649-3-2



PREPARED:  
DATE: 23-JULY-96

STATE OF UTAH, DIV OF OIL, GAS & MINERALS

Operator: CHEVRON	Well Name: BRENNAN FED 10
Project ID: 43-047-32771	Location: SEC. 19 - T7S - R21E

Design Parameters:

Mud weight ( 9.50 ppg) : 0.494 psi/ft  
 Shut in surface pressure : 2997 psi  
 Internal gradient (burst) : 0.077 psi/ft  
 Annular gradient (burst) : 0.000 psi/ft  
 Tensile load is determined using air weight  
 Service rating is "Sweet"

Design Factors:

Collapse : 1.125  
 Burst : 1.00  
 8 Round : 1.80 (J)  
 Buttress : 1.60 (J)  
 Other : 1.50 (J)  
 Body Yield : 1.50 (B)

Length (feet)	Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost		
1	7,200	5.500	17.00	N-80	LT&C	7,200	4.767		
	Collapse Load (psi)	Strgth (psi)	S.F.	Burst Load (psi)	Min Int Strgth (psi)	Yield S.F.	Tension Load (kips)	Strgth (kips)	S.F.
1	3553	6280	1.768	3553	7740	2.18	122.40	348	2.84 J

Prepared by : MATTHEWS, Salt Lake City, Utah  
 Date : 09-04-1996  
 Remarks :

WASATCH

Minimum segment length for the 7,200 foot well is 1,500 feet.

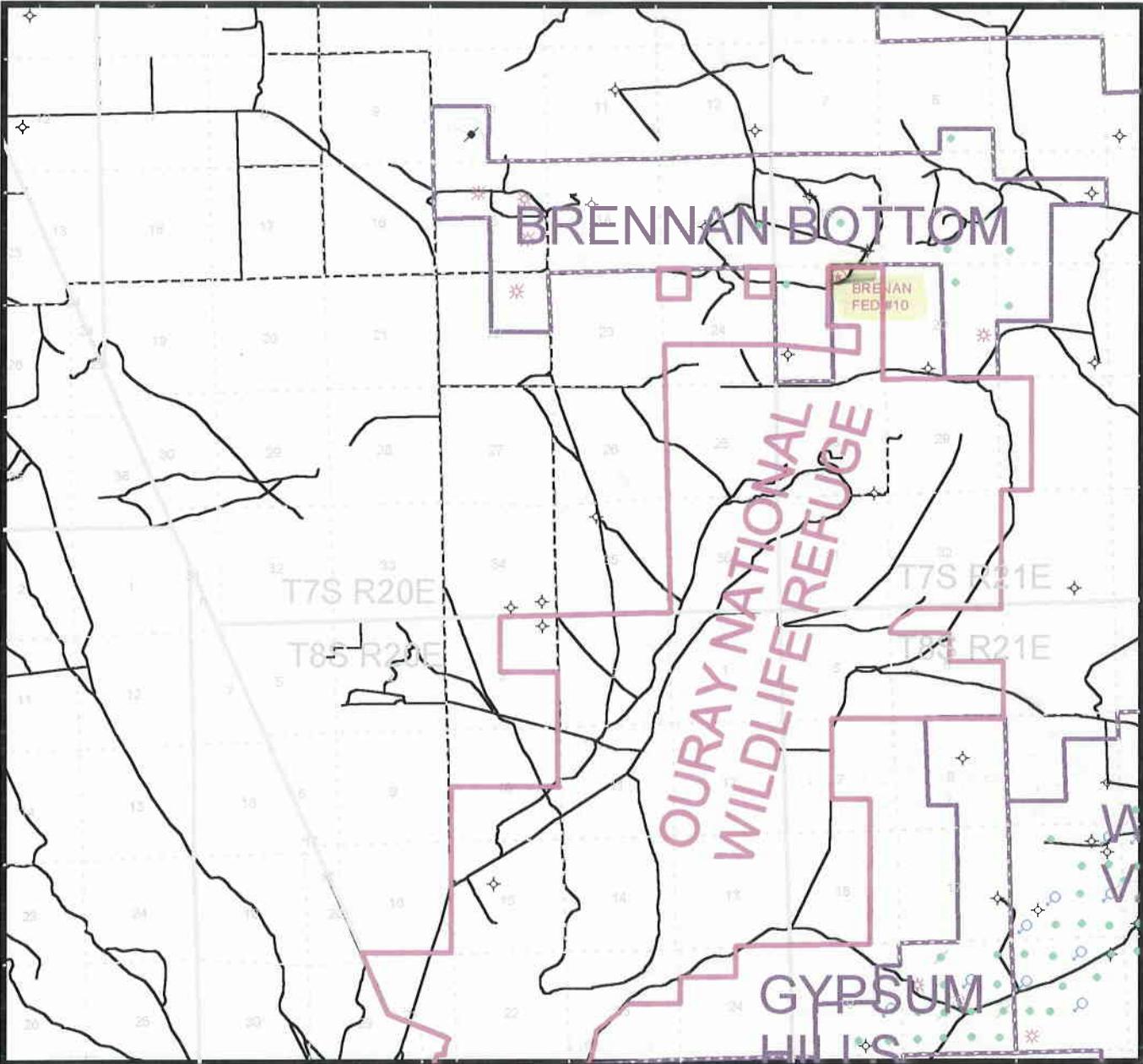
SICP is based on the ideal gas law, a gas gravity of 0.69, and a mean gas temperature of 124°F (Surface 74°F , BHT 175°F & temp. gradient 1.400°/100 ft.)

String type: Production

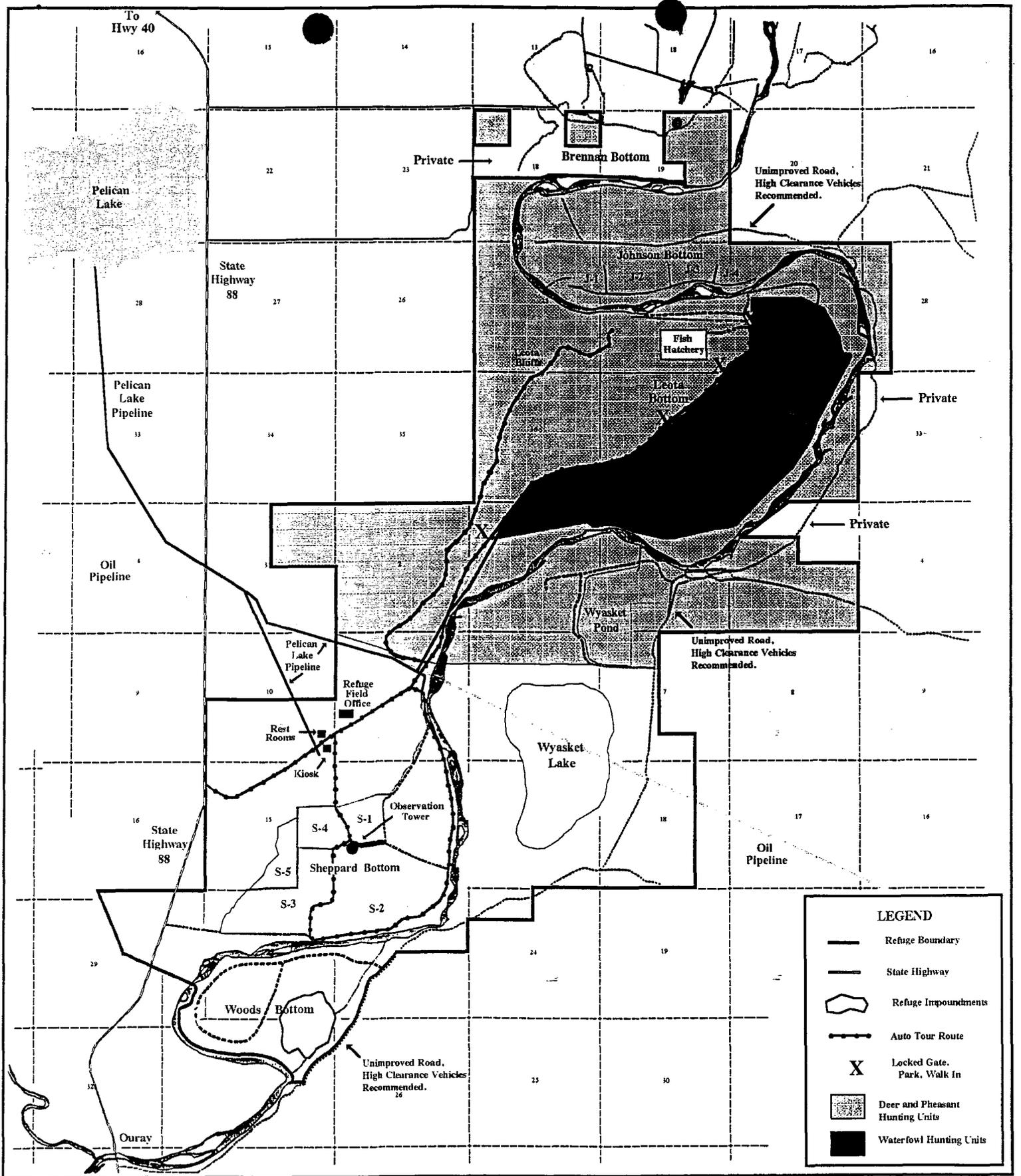
The mud gradient and bottom hole pressures (for burst) are 0.494 psi/ft and 3,553 psi, respectively.

**NOTE:** The design factors used in this casing string design are as shown above. As a general guideline, Lone Star Steel recommends using minimum design factors of 1.125 - collapse (with evacuated casing), 1.0 - (uniaxial) burst, 1.8 - API 8rd tension, 1.6 - buttress tension, 1.5 - body yield tension, and 1.6 - EUE 8rd tension. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility for use of this design will be that of the purchaser.  
 Costs for this design are based on a 1987 pricing model. (Version 1.07)

OPERATOR: CHEVRON  
FIELD: BRENNAN BOTTOM  
SEC, TWP, RNG: 19, T7S, R21E  
COUNTY: UINTAH  
UAC: R649-3-2



PREPARED:  
DATE: 4-NOV-96



LEGEND	
	Refuge Boundary
	State Highway
	Refuge Impoundments
	Auto Tour Route
	Locked Gate, Park, Walk In
	Deer and Pheasant Hunting Units
	Waterfowl Hunting Units

**OURAY NATIONAL WILDLIFE REFUGE**  
**REFUGE HUNTING MAP AND REGULATIONS**

Welcome to the Ouray National Wildlife Refuge. The following information on Refuge hunting regulations is provided to assist you during your hunt on the Refuge.

The only wildlife which may be hunted on the refuge are: **DUCKS, GEESE, COOTS, PHEASANTS AND DEER**. Please refer to the unit specific regulations found below for which species may be hunted in each unit of the refuge.

Be aware that much of the refuge is leased **UTE TRIBAL LANDS** and that special regulations from the Ute Tribe may pertain to these lands. These leased lands include the Wyasket Lake area and Woods Bottom units of the Refuge.

**NON-TOXIC (STEEL SHOT)** is required for all waterfowl and pheasant hunting.

**CAMPING AND OPEN FIRES ARE PROHIBITED.**

The **RIVER, SANDBARS AND ISLANDS** within the Refuge boundary are **CLOSED** to hunting.

All **VEHICLES**, including ATV's, must stay on established roads.

Leota Bottom is closed to all motorized vehicles. Hunting by foot, bike or horseback is acceptable. Retrieval of deer by hand drawn carts, etc., is acceptable.

All **FIREARMS WILL BE UNLOADED, CASED OR BROKEN DOWN, AND REMAIN IN THE VEHICLE** in the closed to hunting area of the Refuge.

**PROHIBITED ACTIVITIES** include wood cutting and gathering, littering, disturbing or removing plants or natural objects, and removing artifacts of antiquity.

**SPECIFIC UNIT REGULATIONS**

**SHEPPARD BOTTOM: CLOSED TO ALL HUNTING**

**LEOTA BOTTOM: OPEN** to waterfowl, pheasant, and deer hunting. No motor vehicles. Access by foot, bike, or horseback.

**JOHNSON BOTTOM: OPEN** to pheasant and deer hunting.

**WOODS BOTTOM: Open** to Ute Tribal Members only for deer only.

**WYASKET BOTTOM: Northern one-third OPEN** to pheasant and deer hunting. Southern two-thirds open to deer hunting by Tribal Members only.

**BRENNAN BOTTOM: OPEN** to pheasant and deer hunting.



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

September 4, 1996

Chevron USA Production  
11002 East 17500 South  
Vernal, Utah 84078

Re: Brennan Federal #10 Well, 660' FNL, 1980' FEL, NW NE,  
Sec. 19, T. 7 S., R. 21 E., Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-32771.

Sincerely,

A handwritten signature in black ink, appearing to read "R. J. Firth".

R. J. Firth  
Associate Director

lwp

Enclosures

cc: Uintah County Assessor  
Bureau of Land Management, Vernal District Office



Operator: Chevron USA Company  
Well Name & Number: Brennan Federal #10  
API Number: 43-047-32771  
Lease: ML-3068  
Location: NW NE Sec. 19 T. 7 S. R. 21 E.

### Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements

Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jimmie Thompson at (801)538-5336.

Notify the Division prior to commencing operations to plug and abandon the well. Contact Frank Matthews at (801)538-5334 or Mike Hebertson at (801)538-5333.

3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: CHEVRON USA

Well Name: BRENNAN FEDERAL # 10

Api No. 43-047-32771

Section 19 Township 7S Range 21E County UINTAH

Drilling Contractor \_\_\_\_\_

Rig # \_\_\_\_\_

SPUDDED:

Date 1/8/97

Time \_\_\_\_\_

How DRY HOLE

Drilling will commence \_\_\_\_\_

Reported by D. HACKFORD

Telephone # \_\_\_\_\_

Date: 1/8/97 Signed: JLT

STATE OF UTAH  
DIVISION OF OIL GAS AND MINING  
BOPE TEST INSPECTION FORM

COMPANY: CHEVRON USA REPRESENTATIVE: TONY HARLAN

WELL NAME: BRENNAN FED. #10 API NO: 43-047-32771

WELL SIGN: Y OTR/DTR NW/NE SEC: 19 TWP: 7S RANGE: 21E

INSPECTOR: DAVID HAGNFORD TIME: VARIOUS AM DATE: 1/31/97

DRILLING CONTRACTOR: COLORADO WELL SERV. RIG: 7S

DEPTH: 651' LAST CASING: 8 5/8 SET @: 651'

TESTED BY: DOUBLE JACK WATER: YES HUD:

TEST PRESSURES: 5000 KELLYCOCK: UPPER YES LOWER YES

INSIDE BOP NO FULL OPENING VALVE ON FLOOR YES

WRENCH FOR FULL OPENING VALVE/KELLYCOCK ON FLOOR YES

STACK LISTED AS ARRANGED (FROM TOP TO BOTTOM): PRESSURE

1. ROTATING HEAD
2. ANNULAR
3. BLIND RANG
4. PIPE RANG 8 1/2"
5. SPOOL
6. WELL HEAD

CHOKE MANIFOLD AND VALVES:

DART VALVE: YES FLOOR VALVE: YES HCR VALVE: NO

INSIDE VALVES YES OUTSIDE VALVES YES

ADDITIONAL COMMENTS: ALL TESTS TO 5000 LBS AND HELD FOR 20 MINUTES EXCEPT FOR ANNULAR AND SURFACE PIPE WHICH WAS TESTED TO 1500 LBS FOR 20 MINUTES. ALL BOP RANGS ON STACK ARE NOTED.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir  
Use "APPLICATION FOR PERMIT--" for such proposals

5. Lease Designation and Serial No.  
**ML-3068**

6. If Indian, Allottee or Tribe Name  
**N/A**

7. If Unit or CA, Agreement Designation  
**BRENNAN BOTTOM UNIT**

8. Well Name and No.  
**BRENNAN FEDERAL #10**

9. API Well No.  
**43-047-32771**

10. Field and Pool, or Exploratory Area  
**BRENNAN BOTTOM-GREEN RIVER**

11. County or Parish, State  
**UINTAH, UTAH**

**SUBMIT IN TRIPLICATE**

1. Type of Well  
Oil Gas  
 Well  Well  Other

2. Name of Operator  
**CHEVRON U.S.A. PRODUCTION COMPANY**

3. Address and Telephone No  
**11002 E. 17500 S. VERNAL, UT 84078-8526 (801) 781-4300**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**NW NE, SEC 19,T7S, R21E, 660' FNL 1980' FEL, NW NE**

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other <u>SPUD DATE</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note) Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)

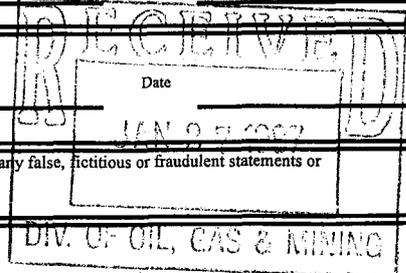
**THIS WELL WAS SPUD ON 01/21/97.**

14. I hereby certify that the foregoing is true and correct.  
Signed D. C. Tanner Title **COMPUTER SYSTEMS OPERATOR** Date **1/23/97**

(This space for Federal or State office use)  
Approved by: \_\_\_\_\_ Title \_\_\_\_\_  
Conditions of approval, if any \_\_\_\_\_

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See instruction on Reverse Side



OPERATOR: **Chevron USA Production Company**  
ADDRESS: **11002 East 17500 South**  
**Vernal, Utah 84078-8526 (801)781-4300**

ENTITY ACTION FORM - FORM 6

Action Code	Current Entity No.	New Entity No.	API Number	Well Name	QQ	SC	TP	RG	County	Spud Date	Effective Date
B	05261	→	43-047-32771	Brennan Federal #10	NW NE	19	7S	21 E	Uintah	01/18/96	

WELL 1 COMMENTS:  
New well to be drilled in Brennan Federal Unit. *Entity added 1-29-97. Lec*

--	--	--	--	--	--	--	--	--	--	--	--

WELL 2 COMMENTS:

--	--	--	--	--	--	--	--	--	--	--	--

WELL 3 COMMENTS:

--	--	--	--	--	--	--	--	--	--	--	--

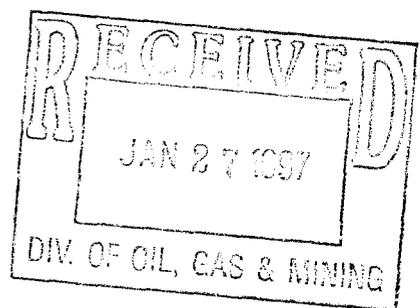
WELL 4 COMMENTS:

--	--	--	--	--	--	--	--	--	--	--	--

WELL 5 COMMENTS:

- ACTION CODES (See instructions on back of form)
- A - Establish new entity for new well (single well only)
  - B - Add new well to existing entity (group or unit well)
  - C - Re-assign well from one existing entity to another existing entity
  - D - Re-assign well from one existing entity to a new entity
  - E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected



*D. C. Lanna*  
Signature

Computer Systems Opr. \_\_\_\_\_  
Title Date

Phone No. **(801) 781-4300**

**Double Jack Testing & Services, Inc.**  
**B.O.P. Test Report**

**B.O.P. Test performed on (date)** 1/21/97

**Oil Company** Chevron U.S.A.

**Well Name & Number** Brennen Fed. #10

**Section** \_\_\_\_\_

**Township** \_\_\_\_\_

**Range** \_\_\_\_\_

**County & State** Uintah, Ut.

**Drilling Rig** Carl Dell #78

**Company Man** Tony Harland

**Tool Pusher** Jerry Mechan

**Notified prior to test** \_\_\_\_\_

**Copies of this report sent to:**

~~State~~ State

Location

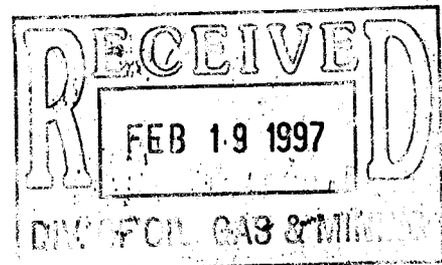
**Original chart & test report on file at:**

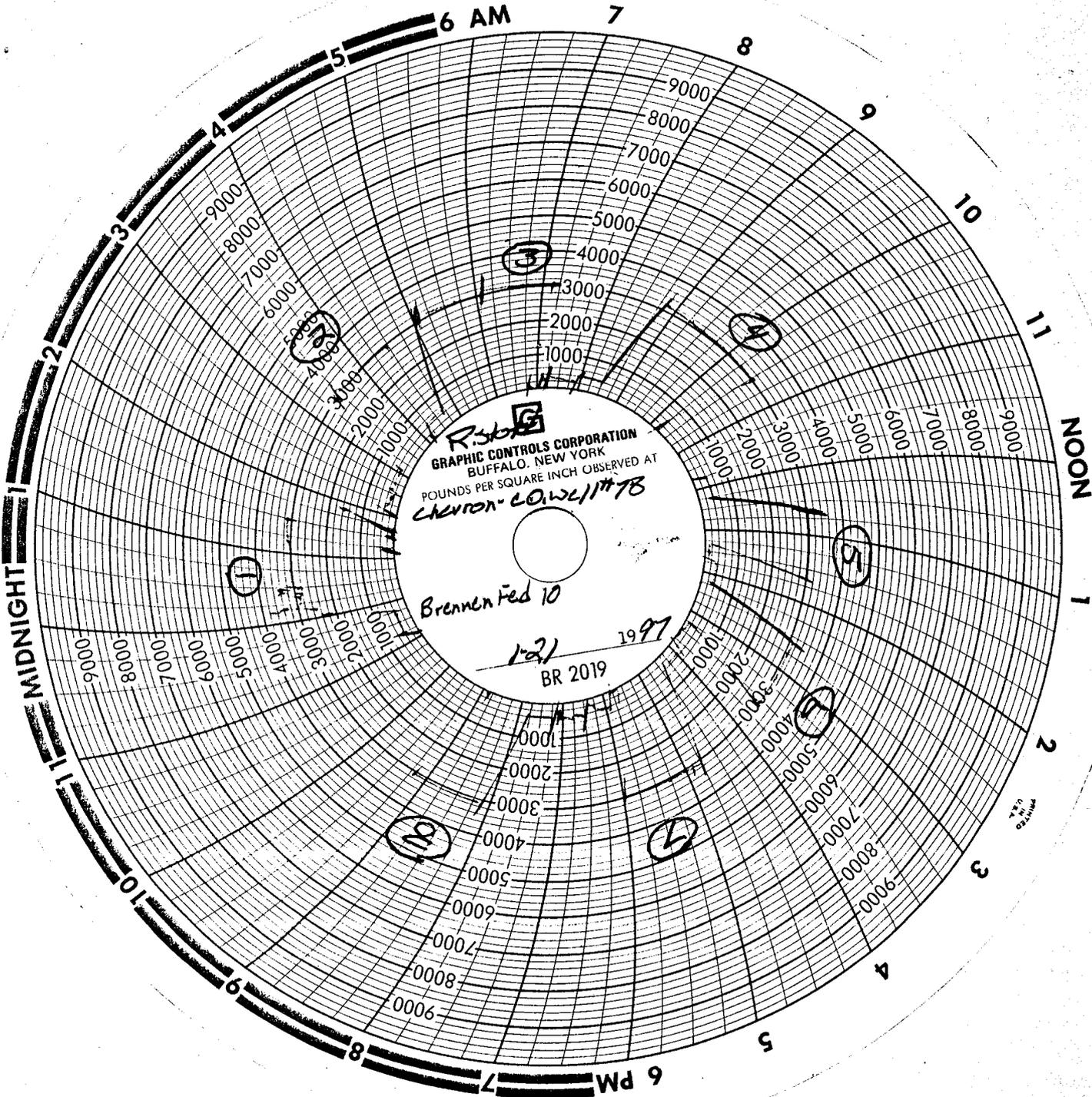
**Double Jack Testing**

**P.O. Box 828**

**Vernal, UT 84078**

**(801)781-0448**





**GRAPHIC CONTROLS CORPORATION**  
BUFFALO, NEW YORK  
POUNDS PER SQUARE INCH OBSERVED AT  
*CHRYSLER - COLWELL #78*  
*Brennen Fed 10*  
*1-21* 1997  
BR 2019

1

2

3

4

5

6

7

8

9

10

NOON

MIDNIGHT

1

2

3

4

5

6 AM

7

8

9

10

NOON

1

2

3

4

5

6 PM

7

8

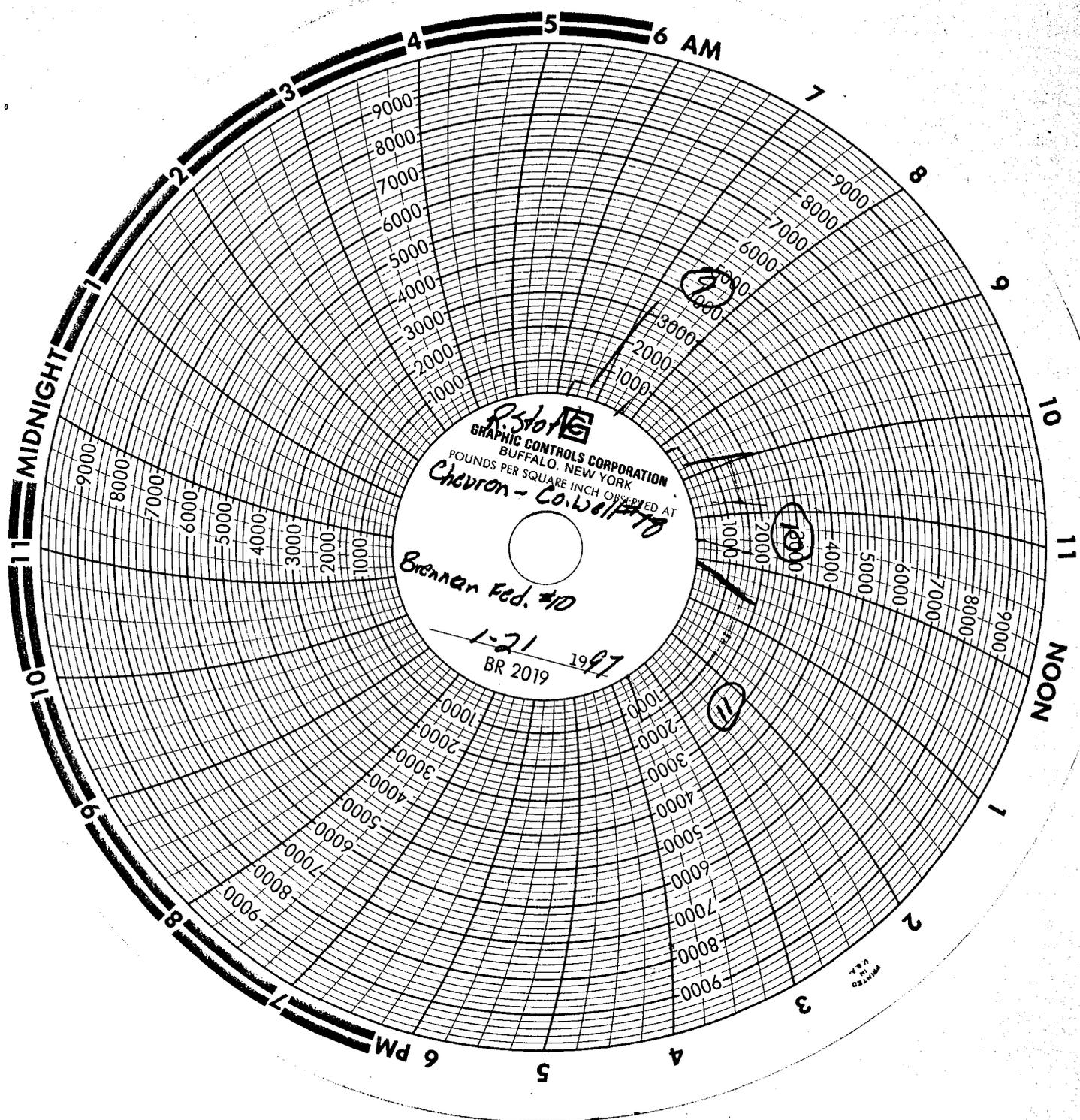
9

10

11

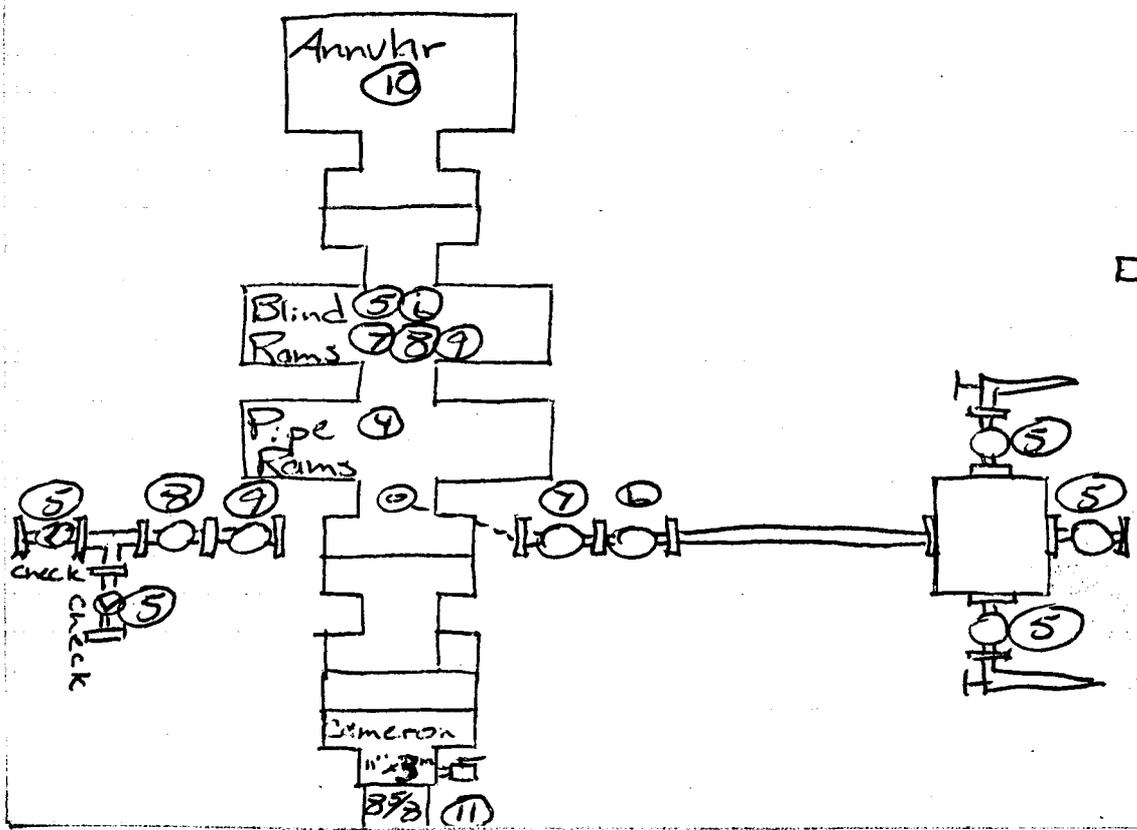
MIDNIGHT

GRAPHIC CONTROLS CORPORATION  
BUFFALO, NEW YORK



- ① Floor Safety vlv. (TIW)  
250psi: 5min 3000psi: 10min
- ② Lower Kelly vlv  
250psi: 5min 3000psi: 10min
- ③ Upper Kelly vlv  
250psi: 5min 3000psi: 10min
- ④ Pipe Rams + Inside B.O.P. vlv  
250psi: 5min 3000psi: 10min
- ⑤ Blind Rams + Check Vlv + Manifold  
250psi: 5min 3000psi: 10min
- ⑥ Blind Rams + O.S. Chokeline vlv  
250psi: 5min 3000psi: 10min
- ⑦ Blind Rams + I.S. Chokeline vlv  
250psi: 5min 3000psi: 10min
- ⑧ Blind Rams + Mud. Kill vlv  
250psi: 5min 3000psi: 10min
- ⑨ Blind Rams + I.S. Kill vlv  
250psi: 5min 3000psi: 10min
- ⑩ Annular  
250psi: 5min 1500psi: 10min
- ⑪ 8 5/8" cong  
1500psi: 30min

\* Fill Chokeline + manifold w/ methanol



Rod Stott  
Double Jack Testing  
Thank You

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir  
Use "APPLICATION FOR PERMIT--" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well  
Oil Gas  
 Well  Well  Other

2. Name of Operator  
**CHEVRON U.S.A. PRODUCTION COMPANY**

3. Address and Telephone No  
**11002 E. 17500 S. VERNAL, UT 84078-8526 (801) 781-4300**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**NW NE, SEC 19, T7S, R21E, 660' FNL 1980' FEL, NW NE**

5. Lease Designation and Serial No.  
**ML-3068**

6. If Indian, Allottee or Tribe Name  
**N/A**

7. If Unit or CA, Agreement Designation  
**BRENNAN BOTTOM UNIT**

8. Well Name and No.  
**BRENNAN FEDERAL #10**

9. API Well No.  
**43-047-32771**

10. Field and Pool, or Exploratory Area  
**BRENNAN BOTTOM-GREEN RIVER**

11. County or Parish, State  
**UINTAH, UTAH**

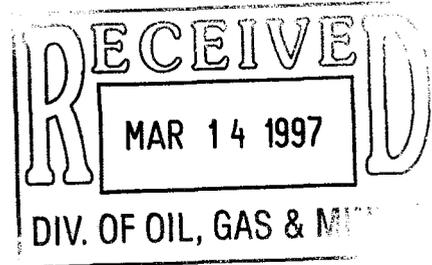
12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other <u>FIRST PRODUCTION</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note) Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)

**THIS WELL COMMENCED PRODUCTION ON 3/11/97.**



14. I hereby certify that the foregoing is true and correct.  
Signed DC Tanner Title COMPUTER SYSTEMS OPERATOR Date 3/12/97

(This space for Federal or State office use)

Approved by: \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**UNITED STATES**  
**DEPARTMENT OF THE INTERIOR**  
**BUREAU OF LAND MANAGEMENT**

**SUBMIT IN DUPLICATE**  
(See other instructions on reverse side).

Form approved.  
Budget Bureau No. 1004-0137  
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.  
**ML-3068**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG \***

1a. TYPE OF WELL OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

b. TYPE OF COMPLETION NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR  Other \_\_\_\_\_

7. UNIT AGREEMENT NAME  
**BRENNAN BOTTOM UNIT**

8. FARM OR LEASE NAME

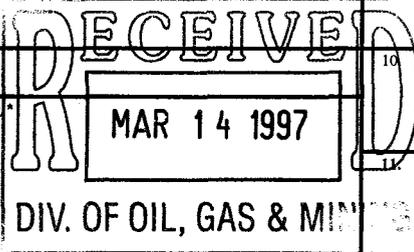
2. NAME OF OPERATOR  
**CHEVRON USA PRODUCTION CO., INC.**

9. WELL NO.  
**BRENNAN FEDERAL #10**

3. ADDRESS OF OPERATOR  
**11002 EAST 17500 SOUTH, VERNAL, UT 84078 801-781-4300**

10. FIELD AND POOL, OR WILDCAT  
**BRENNAN BOTTOM - GREEN RIVER**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)  
At surface **660' FNL, 1980' FEL, NWNE**  
At top rod. interval reported below **SAME**  
At total depth **SAME**



11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
**SEC. 19-T7S-R21E, SLBM**

14. PERMIT NO. **43-047-32771** DATE ISSUED **9/4/96** 12. COUNTY OR PARISH **UINTAH** 13. STATE **UT**

15. DATE SPUDDED **1/21/97** 16. DATE T.D. REACHED **2/3/97** 17. DATE COMPL. (Ready to prod.) **2/25/97** 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* **4693' KB, 4679' GL** 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD **7060'** 21. PLUG BACK T.D., MD & TVD **7005'** 22. IF MULTIPLE COMPL., HOW MANY\* 23. INTERVALS DRILLED BY ROTARY TOOLS **X** CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)\*  
**6725' TO 6860' GREEN RIVER**

25. WAS DIRECTIONAL SURVEY MADE  
**NO**

26. TYPE ELECTRIC AND OTHER LOGS RUN **CBL, COMP. DEUSILOG/COMP NEUTRON/GR DUAL INDUCTION FOCUSED LOG/GR MAGNETIC RESONANCE IMAGING LOG**

27. WAS WELL CORED

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8	24	665	12-1/4	400 SX. PREMIUM V	NA
5-1/2	17	7060	7-7/8	430 SX. CLASS H HI-FILL LEAD; 560 SX. CLASS H TAIL	NA

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8	6822	

31. PERFORATION RECORD (Interval, size and number)

**6725-38' H2 LIME**  
**6769-74' H4A LIME**  
**6835-48' I SAND**  
**6857-60' I SAND**  
**ALL PERFORATIONS 4 JSPF, 90° PHASING**

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6725-38'	2500 GAL. 28% HCL
6769-74'	2500 GAL. 28% HCL
6835' THROUGH 6860'	5500 GAL. GEL & 30200# 20/40 SAND

33.\* PRODUCTION

DATE FIRST PRODUCTION **3/11/97** PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) **ROD PUMP, 2-1/2" X 1-1/2" X 26' RHBC** WELL STATUS (Producing or shut-in) **PRODUCING**

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL--BBL.	GAS--MCF.	WATER--BBL.	GAS-OIL RATIO
3/12/97	18	NA	----->	60	8	80	133

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL--BBL.	GAS--MCF	WATER--BBL	OIL GRAVITY-API (CORR.)
250	50	----->	80	11	107 (LOAD WTR.)	32

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) **USED FOR FUEL** TEST WITNESSED BY **ROY DIXON**

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED R.A.Griffin TITLE GEOLOGIC TECHNICIAN DATE 12 March 1997

(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP		BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS		
	TOP	BOTTOM			NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Uinta	Surface	3382		<p><b>LOG DESCRIPTION (From Page 1)</b>            GRFC-API 0 310 1 1: Gamma ray counts            DRFC.G/C3 0 356 99 1:ZDL Correction            CAFC. 0 0 0 1:N/A            D273.PU 0 890 99 1:Porosity from ZDEN            PEFC.BARN 0 995 99 1:Photo Electric cross section            RBFC.G/C3 0 350 1 1:ZDL Bulk Density            RDDI.OHMM 0 120 46 1:Resistivity from CILD            RMDI.OHMM 0 120 44 1:Resistivity from CILM            RSDI.OHMM 0 220 6 1:Resistivity from CFOC            SPmisc.MV 0 10 1 1:Spontaneous Potential - Eclipse version            LMCN.PU 0 995 99 1:CNC corrected to Field Normalized transform            SPDI.MV 0 10 1 1:Spontaneous Potential            MRIL - Magnetic Resonance Imaging Log            GR-CBL-CCL - Gamma Ray Cement Bond Log</p>			
Green River	3382	6890			Green River - Oil Shale Green River - G1 Lime Green River - H2 Lime Green River - H4a Green River - I sand	4725 6531 6724 6769 6835	
Wasatch			TD				

1

**BARRELS OF 42 GALLONS**

ARTHUR F. BROCK  
Tank Table Service  
Box 262 Tulsa, Okla. 74101

Strapped By

Date 03/06/97 CHEVRON:

Owner CHEVRON USA PROD. CO., INC.

Farm BRENNAN BOTTOM #10 ML 3068

¼ Sec. NW NE Dist.

Sec. 19 7S 21E

County UINTAH State UTAH

¼" INCREMENTS

Ft.	In.	Qt.	0.00499
0	9	0	0.41932
1	6	0	0.40847
2	11	0	0.41952
15	0	0	0.41764
			300.56399

15 Ft.

0"	300.56
1/4	
1/2	
3/4	
1"	
1/4	
1/2	
3/4	
2"	
1/4	
1/2	

0 Ft.		1 Ft.		2 Ft.		3 Ft.		4 Ft.		5 Ft.		6 Ft.		7 Ft.		8 Ft.		9 Ft.		10 Ft.		11 Ft.		12 Ft.		13 Ft.		14 Ft.		15 Ft.	
0"	0.00	0"	20.00	0"	39.87	0"	60.00	0"	80.05	0"	100.09	0"	120.14	0"	140.19	0"	160.23	0"	180.28	0"	200.33	0"	220.37	0"	240.42	0"	260.47	0"	280.51	0"	300.56
1/4	0.42	1/4	20.41	1/4	40.29	1/4	60.42	1/4	80.46	1/4	100.51	1/4	120.56	1/4	140.60	1/4	160.65	1/4	180.70	1/4	200.74	1/4	220.79	1/4	240.84	1/4	260.88	1/4	280.93	1/4	300.98
1/2	0.84	1/2	20.81	1/2	40.71	1/2	60.83	1/2	80.88	1/2	100.93	1/2	120.97	1/2	141.02	1/2	161.07	1/2	181.11	1/2	201.16	1/2	221.21	1/2	241.25	1/2	261.30	1/2	281.35	1/2	301.40
3/4	1.26	3/4	21.22	3/4	41.13	3/4	61.25	3/4	81.30	3/4	101.34	3/4	121.39	3/4	141.44	3/4	161.48	3/4	181.53	3/4	201.58	3/4	221.63	3/4	241.67	3/4	261.72	3/4	281.77	3/4	301.82
1"	1.68	1"	21.63	1"	41.55	1"	61.67	1"	81.72	1"	101.76	1"	121.81	1"	141.86	1"	161.90	1"	181.95	1"	202.00	1"	222.04	1"	242.09	1"	262.14	1"	282.18	1"	302.23
1/4	2.10	1/4	22.04	1/4	41.97	1/4	62.09	1/4	82.13	1/4	102.18	1/4	122.23	1/4	142.27	1/4	162.32	1/4	182.37	1/4	202.41	1/4	222.46	1/4	242.51	1/4	262.55	1/4	282.60	1/4	302.65
1/2	2.52	1/2	22.45	1/2	42.39	1/2	62.50	1/2	82.55	1/2	102.60	1/2	122.64	1/2	142.69	1/2	162.74	1/2	182.78	1/2	202.83	1/2	222.88	1/2	242.92	1/2	262.97	1/2	283.02	1/2	303.07
3/4	2.94	3/4	22.86	3/4	42.81	3/4	62.92	3/4	82.97	3/4	103.02	3/4	123.06	3/4	143.11	3/4	163.16	3/4	183.20	3/4	203.25	3/4	223.30	3/4	243.34	3/4	263.39	3/4	283.44	3/4	303.49
2"	3.35	2"	23.26	2"	43.23	2"	63.34	2"	83.39	2"	103.43	2"	123.48	2"	143.53	2"	163.57	2"	183.62	2"	203.67	2"	223.71	2"	243.76	2"	263.81	2"	283.85	2"	303.90
1/4	3.77	1/4	23.67	1/4	43.64	1/4	63.76	1/4	83.80	1/4	103.85	1/4	123.90	1/4	143.94	1/4	163.99	1/4	184.04	1/4	204.08	1/4	224.13	1/4	244.18	1/4	264.22	1/4	284.27	1/4	304.32
1/2	4.19	1/2	24.08	1/2	44.06	1/2	64.17	1/2	84.22	1/2	104.27	1/2	124.31	1/2	144.36	1/2	164.41	1/2	184.46	1/2	204.50	1/2	224.55	1/2	244.60	1/2	264.64	1/2	284.69	1/2	304.74
3/4	4.61	3/4	24.49	3/4	44.48	3/4	64.59	3/4	84.64	3/4	104.69	3/4	124.73	3/4	144.78	3/4	164.83	3/4	184.87	3/4	204.92	3/4	224.97	3/4	245.01	3/4	265.06	3/4	285.11	3/4	305.16
3"	5.03	3"	24.90	3"	44.90	3"	65.01	3"	85.06	3"	105.10	3"	125.15	3"	145.20	3"	165.24	3"	185.29	3"	205.34	3"	225.38	3"	245.43	3"	265.48	3"	285.52	3"	305.57
1/4	5.45	1/4	25.31	1/4	45.32	1/4	65.43	1/4	85.47	1/4	105.52	1/4	125.57	1/4	145.61	1/4	165.66	1/4	185.71	1/4	205.75	1/4	225.80	1/4	245.85	1/4	265.89	1/4	285.94	1/4	305.99
1/2	5.87	1/2	25.72	1/2	45.74	1/2	65.85	1/2	85.89	1/2	105.94	1/2	125.99	1/2	146.03	1/2	166.08	1/2	186.13	1/2	206.17	1/2	226.22	1/2	246.27	1/2	266.31	1/2	286.36	1/2	306.41
3/4	6.29	3/4	26.12	3/4	46.16	3/4	66.26	3/4	86.31	3/4	106.36	3/4	126.40	3/4	146.45	3/4	166.50	3/4	186.54	3/4	206.59	3/4	226.64	3/4	246.68	3/4	266.73	3/4	286.78	3/4	306.83
4"	6.71	4"	26.53	4"	46.58	4"	66.68	4"	86.73	4"	106.77	4"	126.82	4"	146.87	4"	166.91	4"	186.96	4"	207.01	4"	227.05	4"	247.10	4"	267.15	4"	287.19	4"	307.24
1/4	7.13	1/4	26.94	1/4	47.00	1/4	67.10	1/4	87.14	1/4	107.19	1/4	127.24	1/4	147.29	1/4	167.33	1/4	187.38	1/4	207.43	1/4	227.47	1/4	247.52	1/4	267.57	1/4	287.61	1/4	307.66
1/2	7.55	1/2	27.35	1/2	47.42	1/2	67.52	1/2	87.56	1/2	107.61	1/2	127.66	1/2	147.70	1/2	167.75	1/2	187.80	1/2	207.84	1/2	227.89	1/2	247.94	1/2	267.98	1/2	288.03	1/2	308.08
3/4	7.97	3/4	27.76	3/4	47.84	3/4	67.93	3/4	87.98	3/4	108.03	3/4	128.07	3/4	148.12	3/4	168.17	3/4	188.21	3/4	208.26	3/4	228.31	3/4	248.35	3/4	268.40	3/4	288.45	3/4	308.50
5"	8.39	5"	28.17	5"	48.26	5"	68.35	5"	88.40	5"	108.44	5"	128.49	5"	148.54	5"	168.58	5"	188.63	5"	208.68	5"	228.72	5"	248.77	5"	268.82	5"	288.87	5"	308.92
1/4	8.81	1/4	28.58	1/4	48.68	1/4	68.77	1/4	88.82	1/4	108.86	1/4	128.91	1/4	148.96	1/4	169.00	1/4	189.05	1/4	209.10	1/4	229.14	1/4	249.19	1/4	269.24	1/4	289.28	1/4	309.33
1/2	9.23	1/2	28.98	1/2	49.10	1/2	69.19	1/2	89.23	1/2	109.28	1/2	129.33	1/2	149.37	1/2	169.42	1/2	189.47	1/2	209.51	1/2	229.56	1/2	249.61	1/2	269.65	1/2	289.70	1/2	309.75
3/4	9.64	3/4	29.39	3/4	49.52	3/4	69.60	3/4	89.65	3/4	109.70	3/4	129.74	3/4	149.79	3/4	169.84	3/4	189.88	3/4	209.93	3/4	229.98	3/4	250.02	3/4	270.07	3/4	290.12	3/4	310.17
6"	10.06	6"	29.80	6"	49.94	6"	70.02	6"	90.07	6"	110.12	6"	130.16	6"	150.21	6"	170.26	6"	190.30	6"	210.35	6"	230.40	6"	250.44	6"	270.49	6"	290.54	6"	310.59
1/4	10.48	1/4	30.22	1/4	50.36	1/4	70.44	1/4	90.49	1/4	110.53	1/4	130.58	1/4	150.63	1/4	170.67	1/4	190.72	1/4	210.77	1/4	230.81	1/4	250.86	1/4	270.91	1/4	290.95	1/4	311.00
1/2	10.90	1/2	30.64	1/2	50.78	1/2	70.86	1/2	90.90	1/2	110.95	1/2	131.00	1/2	151.04	1/2	171.09	1/2	191.14	1/2	211.18	1/2	231.23	1/2	251.28	1/2	271.32	1/2	291.37	1/2	311.42
3/4	11.32	3/4	31.06	3/4	51.20	3/4	71.27	3/4	91.32	3/4	111.37	3/4	131.41	3/4	151.46	3/4	171.51	3/4	191.55	3/4	211.60	3/4	231.65	3/4	251.70	3/4	271.74	3/4	291.79	3/4	311.84
7"	11.74	7"	31.48	7"	51.62	7"	71.69	7"	91.74	7"	111.79	7"	131.83	7"	151.88	7"	171.93	7"	191.97	7"	212.02	7"	232.07	7"	252.11	7"	272.16	7"	292.21	7"	312.26
1/4	12.16	1/4	31.90	1/4	52.03	1/4	72.11	1/4	92.16	1/4	112.20	1/4	132.25	1/4	152.30	1/4	172.34	1/4	192.39	1/4	212.44	1/4	232.48	1/4	252.53	1/4	272.58	1/4	292.62	1/4	312.67
1/2	12.58	1/2	32.32	1/2	52.45	1/2	72.53	1/2	92.57	1/2	112.62	1/2	132.67	1/2	152.71	1/2	172.76	1/2	192.81	1/2	212.85	1/2	232.90	1/2	252.95	1/2	272.99	1/2	293.04	1/2	313.09
3/4	13.00	3/4	32.74	3/4	52.87	3/4	72.95	3/4	92.99	3/4	113.04	3/4	133.09	3/4	153.13	3/4	173.18	3/4	193.23	3/4	213.27	3/4	233.32	3/4	253.37	3/4	273.41	3/4	293.46	3/4	313.51
8"	13.42	8"	33.16	8"	53.29	8"	73.36	8"	93.41	8"	113.46	8"	133.50	8"	153.55	8"	173.60	8"	193.64	8"	213.69	8"	233.74	8"	253.78	8"	273.83	8"	293.88	8"	313.93
1/4	13.84	1/4	33.58	1/4	53.71	1/4	73.78	1/4	93.83	1/4	113.87	1/4	133.92	1/4	153.97	1/4	174.01	1/4	194.06	1/4	214.11	1/4	234.15	1/4	254.20	1/4	274.25	1/4	294.29	1/4	314.34
1/2	14.26	1/2	34.00	1/2	54.13	1/2	74.20	1/2	94.24	1/2	114.29	1/2	134.34	1/2	154.38	1/2	174.43	1/2	194.48	1/2	214.53	1/2	234.57	1/2	254.62	1/2	274.67	1/2	294.71	1/2	314.76
3/4	14.68	3/4	34.42	3/4	54.55	3/4	74.62	3/4	94.66	3/4	114.71	3/4	134.76	3/4	154.80	3/4	174.85	3/4	194.90	3/4	214.94	3/4	234.99	3/4	255.04	3/4	275.08	3/4	295.13	3/4	315.18
9"	15.10	9"	34.83	9"	54.97	9"	75.03	9"	95.08	9"	115.13	9"	135.17	9"																	

# 2

## BARRELS OF 42 GALLONS

ARTHUR F. BROCK  
 Tank Table Service  
 Box 262 Tulsa, Okla. 74101

Strapped By

Date 03/06/97 CHEVRON:

Owner **CHEVRON USA PROD. CO., INC.**

Farm **BRENNAN BOTTOM #10 ML 3068**

¼ Sec. **NW NE** Dist.

Sec. **19 7S 21E**

County **UINTAH** State **UTAH**

½" INCREMENTS

Ft.	In.	Qt.	
0	9	0	0.00499
1	6	0	0.41908
2	11	0	0.40823
5	0	0	0.41928
15	0	0	0.41740
			0.41764

300.50639

15 Ft.	300.50
1 ¼"	
1 ½"	
3 ¼"	
1 1"	
1 ¼"	
1 ½"	
3 ¼"	
2 1"	
1 ¼"	
1 ½"	

0 Ft.	1 Ft.	2 Ft.	3 Ft.	4 Ft.	5 Ft.	6 Ft.	7 Ft.	8 Ft.	9 Ft.	10 Ft.	11 Ft.	12 Ft.	13 Ft.	14 Ft.
0" 0.00	0" 19.99	0" 39.85	0" 59.96	0" 80.00	0" 100.03	0" 120.08	0" 140.13	0" 160.17	0" 180.22	0" 200.27	0" 220.31	0" 240.36	0" 260.41	0" 280.45
1/4 0.42	1/4 20.39	1/4 40.27	1/4 60.38	1/4 80.42	1/4 100.45	1/4 120.50	1/4 140.55	1/4 160.59	1/4 180.64	1/4 200.69	1/4 220.73	1/4 240.78	1/4 260.83	1/4 280.87
1/2 0.84	1/2 20.80	1/2 40.68	1/2 60.80	1/2 80.83	1/2 100.87	1/2 120.92	1/2 140.96	1/2 161.01	1/2 181.06	1/2 201.10	1/2 221.15	1/2 241.20	1/2 261.24	1/2 281.29
3/4 1.26	3/4 21.21	3/4 41.10	3/4 61.22	3/4 81.25	3/4 101.29	3/4 121.33	3/4 141.38	3/4 161.43	3/4 181.47	3/4 201.52	3/4 221.57	3/4 241.61	3/4 261.66	3/4 281.71
1" 1.68	1" 21.62	1" 41.52	1" 61.63	1" 81.67	1" 101.70	1" 121.75	1" 141.80	1" 161.84	1" 181.89	1" 201.94	1" 221.99	1" 242.03	1" 262.08	1" 282.13
1 ¼ 2.10	1 ¼ 22.03	1 ¼ 41.94	1 ¼ 62.05	1 ¼ 82.09	1 ¼ 102.12	1 ¼ 122.17	1 ¼ 142.22	1 ¼ 162.26	1 ¼ 182.31	1 ¼ 202.36	1 ¼ 222.40	1 ¼ 242.45	1 ¼ 262.50	1 ¼ 282.54
1 ½ 2.51	1 ½ 22.44	1 ½ 42.36	1 ½ 62.47	1 ½ 82.50	1 ½ 102.54	1 ½ 122.59	1 ½ 142.63	1 ½ 162.68	1 ½ 182.73	1 ½ 202.77	1 ½ 222.82	1 ½ 242.87	1 ½ 262.91	1 ½ 282.96
3 ¼ 2.93	3 ¼ 22.84	3 ¼ 42.78	3 ¼ 62.89	3 ¼ 82.92	3 ¼ 102.96	3 ¼ 123.00	3 ¼ 143.05	3 ¼ 163.10	3 ¼ 183.14	3 ¼ 203.19	3 ¼ 223.24	3 ¼ 243.28	3 ¼ 263.33	3 ¼ 283.38
2" 3.35	2" 23.25	2" 43.20	2" 63.30	2" 83.34	2" 103.38	2" 123.42	2" 143.47	2" 163.52	2" 183.56	2" 203.61	2" 223.66	2" 243.70	2" 263.75	2" 283.80
1 ¼ 3.77	1 ¼ 23.66	1 ¼ 43.62	1 ¼ 63.72	1 ¼ 83.76	1 ¼ 103.79	1 ¼ 123.84	1 ¼ 143.89	1 ¼ 163.93	1 ¼ 183.98	1 ¼ 204.03	1 ¼ 224.07	1 ¼ 244.12	1 ¼ 264.17	1 ¼ 284.21
1 ½ 4.19	1 ½ 24.07	1 ½ 44.04	1 ½ 64.14	1 ½ 84.17	1 ½ 104.21	1 ½ 124.26	1 ½ 144.30	1 ½ 164.35	1 ½ 184.40	1 ½ 204.44	1 ½ 224.49	1 ½ 244.54	1 ½ 264.58	1 ½ 284.63
3 ¼ 4.61	3 ¼ 24.48	3 ¼ 44.46	3 ¼ 64.56	3 ¼ 84.59	3 ¼ 104.63	3 ¼ 124.67	3 ¼ 144.72	3 ¼ 164.77	3 ¼ 184.82	3 ¼ 204.86	3 ¼ 224.91	3 ¼ 244.96	3 ¼ 265.00	3 ¼ 285.05
3" 5.03	3" 24.88	3" 44.88	3" 64.97	3" 85.01	3" 105.05	3" 125.09	3" 145.14	3" 165.19	3" 185.23	3" 205.28	3" 225.33	3" 245.37	3" 265.42	3" 285.47
1 ¼ 5.45	1 ¼ 25.29	1 ¼ 45.30	1 ¼ 65.39	1 ¼ 85.43	1 ¼ 105.46	1 ¼ 125.51	1 ¼ 145.56	1 ¼ 165.60	1 ¼ 185.65	1 ¼ 205.70	1 ¼ 225.74	1 ¼ 245.79	1 ¼ 265.84	1 ¼ 285.88
1 ½ 5.87	1 ½ 25.70	1 ½ 45.72	1 ½ 65.81	1 ½ 85.84	1 ½ 105.88	1 ½ 125.93	1 ½ 145.97	1 ½ 166.02	1 ½ 186.07	1 ½ 206.11	1 ½ 226.16	1 ½ 246.21	1 ½ 266.25	1 ½ 286.30
3 ¼ 6.29	3 ¼ 26.11	3 ¼ 46.14	3 ¼ 66.22	3 ¼ 86.26	3 ¼ 106.30	3 ¼ 126.35	3 ¼ 146.39	3 ¼ 166.44	3 ¼ 186.49	3 ¼ 206.53	3 ¼ 226.58	3 ¼ 246.63	3 ¼ 266.67	3 ¼ 286.72
4" 6.71	4" 26.52	4" 46.55	4" 66.64	4" 86.68	4" 106.72	4" 126.76	4" 146.81	4" 166.86	4" 186.90	4" 206.95	4" 227.00	4" 247.04	4" 267.09	4" 287.14
1 ¼ 7.12	1 ¼ 26.93	1 ¼ 46.97	1 ¼ 67.06	1 ¼ 87.09	1 ¼ 107.13	1 ¼ 127.18	1 ¼ 147.23	1 ¼ 167.27	1 ¼ 187.32	1 ¼ 207.37	1 ¼ 227.41	1 ¼ 247.46	1 ¼ 267.51	1 ¼ 287.55
1 ½ 7.54	1 ½ 27.33	1 ½ 47.39	1 ½ 67.48	1 ½ 87.51	1 ½ 107.55	1 ½ 127.60	1 ½ 147.65	1 ½ 167.69	1 ½ 187.74	1 ½ 207.79	1 ½ 227.83	1 ½ 247.88	1 ½ 267.93	1 ½ 287.97
3 ¼ 7.96	3 ¼ 27.74	3 ¼ 47.81	3 ¼ 67.89	3 ¼ 87.93	3 ¼ 107.97	3 ¼ 128.02	3 ¼ 148.06	3 ¼ 168.11	3 ¼ 188.16	3 ¼ 208.20	3 ¼ 228.25	3 ¼ 248.30	3 ¼ 268.34	3 ¼ 288.39
5" 8.38	5" 28.15	5" 48.23	5" 68.31	5" 88.35	5" 108.39	5" 128.43	5" 148.48	5" 168.53	5" 188.57	5" 208.62	5" 228.67	5" 248.71	5" 268.76	5" 288.81
1 ¼ 8.80	1 ¼ 28.56	1 ¼ 48.65	1 ¼ 68.73	1 ¼ 88.76	1 ¼ 108.80	1 ¼ 128.85	1 ¼ 148.90	1 ¼ 168.94	1 ¼ 188.99	1 ¼ 209.04	1 ¼ 229.08	1 ¼ 249.13	1 ¼ 269.18	1 ¼ 289.23
1 ½ 9.22	1 ½ 28.97	1 ½ 49.07	1 ½ 69.15	1 ½ 89.18	1 ½ 109.22	1 ½ 129.27	1 ½ 149.32	1 ½ 169.36	1 ½ 189.41	1 ½ 209.46	1 ½ 229.50	1 ½ 249.55	1 ½ 269.60	1 ½ 289.64
3 ¼ 9.64	3 ¼ 29.37	3 ¼ 49.49	3 ¼ 69.56	3 ¼ 89.60	3 ¼ 109.64	3 ¼ 129.69	3 ¼ 149.73	3 ¼ 169.78	3 ¼ 189.83	3 ¼ 209.87	3 ¼ 229.92	3 ¼ 249.97	3 ¼ 270.01	3 ¼ 290.06
6" 10.06	6" 29.78	6" 49.91	6" 69.98	6" 90.02	6" 110.06	6" 130.10	6" 150.15	6" 170.20	6" 190.24	6" 210.29	6" 230.34	6" 250.38	6" 270.43	6" 290.48
1 ¼ 10.48	1 ¼ 30.20	1 ¼ 50.33	1 ¼ 70.40	1 ¼ 90.43	1 ¼ 110.48	1 ¼ 130.52	1 ¼ 150.57	1 ¼ 170.62	1 ¼ 190.66	1 ¼ 210.71	1 ¼ 230.76	1 ¼ 250.80	1 ¼ 270.85	1 ¼ 290.90
1 ½ 10.90	1 ½ 30.62	1 ½ 50.75	1 ½ 70.82	1 ½ 90.85	1 ½ 110.89	1 ½ 130.94	1 ½ 150.99	1 ½ 171.03	1 ½ 191.08	1 ½ 211.13	1 ½ 231.17	1 ½ 251.22	1 ½ 271.27	1 ½ 291.31
3 ¼ 11.32	3 ¼ 31.04	3 ¼ 51.17	3 ¼ 71.23	3 ¼ 91.27	3 ¼ 111.31	3 ¼ 131.36	3 ¼ 151.40	3 ¼ 171.45	3 ¼ 191.50	3 ¼ 211.54	3 ¼ 231.59	3 ¼ 251.64	3 ¼ 271.68	3 ¼ 291.73
7" 11.73	7" 31.46	7" 51.59	7" 71.65	7" 91.69	7" 111.73	7" 131.77	7" 151.82	7" 171.87	7" 191.91	7" 211.96	7" 232.01	7" 252.06	7" 272.10	7" 292.15
1 ¼ 12.15	1 ¼ 31.88	1 ¼ 52.00	1 ¼ 72.07	1 ¼ 92.10	1 ¼ 112.15	1 ¼ 132.19	1 ¼ 152.24	1 ¼ 172.29	1 ¼ 192.33	1 ¼ 212.38	1 ¼ 232.43	1 ¼ 252.47	1 ¼ 272.52	1 ¼ 292.57
1 ½ 12.57	1 ½ 32.30	1 ½ 52.42	1 ½ 72.49	1 ½ 92.52	1 ½ 112.56	1 ½ 132.61	1 ½ 152.66	1 ½ 172.70	1 ½ 192.75	1 ½ 212.80	1 ½ 232.84	1 ½ 252.89	1 ½ 272.94	1 ½ 292.98
3 ¼ 12.99	3 ¼ 32.72	3 ¼ 52.84	3 ¼ 72.90	3 ¼ 92.94	3 ¼ 112.98	3 ¼ 133.03	3 ¼ 153.07	3 ¼ 173.12	3 ¼ 193.17	3 ¼ 213.21	3 ¼ 233.26	3 ¼ 253.31	3 ¼ 273.35	3 ¼ 293.40
8" 13.41	8" 33.14	8" 53.26	8" 73.32	8" 93.36	8" 113.40	8" 133.45	8" 153.49	8" 173.54	8" 193.59	8" 213.63	8" 233.68	8" 253.73	8" 273.77	8" 293.82
1 ¼ 13.83	1 ¼ 33.56	1 ¼ 53.68	1 ¼ 73.74	1 ¼ 93.77	1 ¼ 113.82	1 ¼ 133.86	1 ¼ 153.91	1 ¼ 173.96	1 ¼ 194.00	1 ¼ 214.05	1 ¼ 234.10	1 ¼ 254.14	1 ¼ 274.19	1 ¼ 294.24
1 ½ 14.25	1 ½ 33.98	1 ½ 54.10	1 ½ 74.16	1 ½ 94.19	1 ½ 114.23	1 ½ 134.28	1 ½ 154.33	1 ½ 174.37	1 ½ 194.42	1 ½ 214.47	1 ½ 234.51	1 ½ 254.56	1 ½ 274.61	1 ½ 294.65
3 ¼ 14.67	3 ¼ 34.40	3 ¼ 54.52	3 ¼ 74.57	3 ¼ 94.61	3 ¼ 114.65	3 ¼ 134.70	3 ¼ 154.75	3 ¼ 174.79	3 ¼ 194.84	3 ¼ 214.89	3 ¼ 234.93	3 ¼ 254.98	3 ¼ 275.03	3 ¼ 295.07
9" 15.09	9" 34.81	9" 54.94	9" 74.99	9" 95.03	9" 115.07	9" 135.12	9" 155.16	9" 175.21	9" 195.26	9" 215.30	9" 235.35	9" 255.40	9" 275.44	9" 295.49
1 ¼ 15.50	1 ¼ 35.23	1 ¼ 55.36	1 ¼ 75.41	1 ¼ 95.44	1 ¼ 115.49	1 ¼ 135.53	1 ¼ 155.58	1 ¼ 175.63	1 ¼ 195.67	1 ¼ 215.72	1 ¼ 235.77	1 ¼ 255.81	1 ¼ 275.86	1 ¼ 295.91
1 ½ 15.90	1 ½ 35.65	1 ½ 55.78	1 ½ 75.82	1 ½ 95.86	1 ½ 115.90	1 ½ 135.95	1 ½ 156.00	1 ½ 176.04	1 ½ 196.09	1 ½ 216.14	1 ½ 236.18	1 ½ 256.23	1 ½ 276.28	1 ½ 296.32
3 ¼ 16.31	3 ¼ 36.07	3 ¼ 56.20	3 ¼ 76.24	3 ¼ 96.28	3 ¼ 116.32	3 ¼ 136.37	3 ¼ 156.42	3 ¼ 176.46	3 ¼ 196.51	3 ¼ 216.56	3 ¼ 236.60	3 ¼ 256.65	3 ¼ 276.70	3 ¼ 296.74
10" 16.72	10" 36.49	10" 56.62	10" 76.66	10" 96.69	10" 116.74	10" 136.79	10" 156.83	10" 176.88	10" 196.93	10" 216.97	10" 237.02	10" 257.07	10" 277.11	10" 297.16
1 ¼ 17.13	1 ¼ 36.91	1 ¼ 57.04	1 ¼ 77.08	1 ¼ 97.11	1 ¼ 117.16	1 ¼ 137.20	1 ¼ 157.25	1 ¼ 177.30	1 ¼ 197.34	1 ¼ 217.39	1 ¼ 237.44	1 ¼ 257.48	1 ¼ 277.53	1 ¼ 297.58
1 ½ 17.54	1 ½ 37.33	1 ½ 57.46	1 ½ 77.49	1 ½ 97.53	1 ½ 117.58	1 ½ 137.62	1 ½ 157.67	1 ½ 177.72	1 ½ 197.76	1 ½ 217.81	1 ½ 237.86	1 ½ 257.90	1 ½ 277.95	1 ½ 298.00
3 ¼ 17.94	3 ¼ 37.75	3 ¼ 57.87	3 ¼ 77.91	3 ¼ 97.95	3 ¼ 117.99	3 ¼ 138.04	3 ¼ 158.09	3 ¼ 178.13	3 ¼ 198.18	3 ¼ 218.23	3 ¼ 238.27	3 ¼ 258.32	3 ¼ 278.37	3 ¼ 298.41
11" 18.35	11" 38.17	11" 58.29	11" 78.33	11" 98.36	11" 118.41	11" 138.46	11" 158.50	11" 178.55	11" 198.60	11" 218.64	11" 238.69	11" 258.74	11" 278.78	11" 298.83
1 ¼ 18.76	1 ¼ 38.59	1 ¼ 58.71	1 ¼ 78.75	1 ¼ 98.78	1 ¼ 118.83	1 ¼ 138.87	1 ¼ 158.92	1 ¼ 178.97	1 ¼ 199.01	1 ¼ 219.06	1 ¼ 239.11	1 ¼ 259.16	1 ¼ 279.20	1 ¼ 299.25
1 ½ 19.17														





# United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155

**RECEIVED**

FEB 07 2000

DIVISION OF  
**OIL, GAS AND MINING**

IN REPLY REFER TO  
UT-931

February 4, 2000

Shenandoah Energy Inc.  
Attn: Rae Cusimano  
475 17<sup>th</sup> Street, Suite 1000  
Denver, Colorado 80202

Re: Brennan Bottom Unit  
Uintah County, Utah

Gentlemen:

On December 30, 1999, we received an indenture whereby Chevron U.S.A. Inc. resigned as Unit Operator and Shenandoah Energy Inc. was designated as Successor Unit Operator for the Brennan Bottom Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective February 4, 2000. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Brennan Bottom Unit Agreement.

Your statewide (Utah) oil and gas bond No. 0969 will be used to cover all operations within the Brennan Bottom Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks  
Chief, Branch of Fluid Minerals

Enclosure

cc: Chevron U.S.A. Inc.

bcc: Field Manager - Vernal (w/enclosure)  
Division of Oil, Gas & Mining  
Minerals Adjudication Group U-932  
File - Brennan Bottom Unit (w/enclosure)  
MMS - Data Management Division  
Agr. Sec. Chron  
Fluid Chron

UT931:TAThompson:tt:2/4/00





Well	Lease	API Number	Status	Type	Location for Sundry an
BRENNAN FEDERAL 1	U-065342	43-047-15417	A	OIL	1980' FSL & 660' FEL (NE SE) SECTION 13, T7S, I
BRENNAN FEDERAL 5	SL-071745	43-047-15420	A	INJ	1969' FNL & 1833' FWL (SE NW) SECTION 18, T7S, I
BRENNAN FEDERAL 6	FEE	43-047-30109	A	OIL	835' FNL & 591' FWL (NWNW) SECTION 19, T7S, I
BRENNAN FEDERAL 9	U-071745	43-047-32477	A	OIL	1980' FSL & 1980' FEL (NW SE) SECTION 18, T7S, I
BRENNAN FEDERAL 10	ML-3068	43-047-32771	A	OIL	660' FNL & 1980' FEL (NW NE) SECTION 19, T7S, I
BRENNAN FEDERAL 11	U-071745	43-047-32772	A	INJ	649' FSL & 1886' FWL (SE SW) SECTION 18, T7S, I
BRENNAN FEDERAL 12	U-046	43-047-32779	A	OIL	726' FNL & 2200' FEL (NWNE) SECTION 18, T7S, I
BRENNAN FEDERAL 14	U-046	43-047-32774	A	OIL	744' FNL & 461' FWL (NW NW) SECTION 18, T7S, I

May 28, 2003

Division of Oil, Gas, & Mining  
1594 West North Temple, Suite 1210  
P. O. Box 145801  
Salt Lake City, Utah 84114-5801

**Attention: John Baza/Jim Thompson**

Gentlemen:

This will serve as notice that through the internal corporate changes described below, activities formerly conducted in the name of either Shenandoah Operating Company, LLC (SOC) and/or Shenandoah Energy, Inc. (SEI) will hereafter be conducted in the name of QEP Uinta Basin, Inc.: i) the Shenandoah entities were purchased in July, 2001 by Questar Market Resources, Inc., which is a mid-level holding company for the non-utility businesses of Questar Corporation, ii) Shenandoah Operating Company, LLC has now been merged into Shenandoah Energy, Inc. (SEI), iii) Shenandoah Energy, Inc. has now been re-named **QEP Uinta Basin, Inc.** pursuant to a State of Delaware Amended and Restated Certificate of Incorporation, iv) the same employees will continue to be responsible for operations of the former SOC and SEI properties, both in the field and in the office. Accordingly, the change involves only an internal corporate name change and no third party change of operator is involved. Please alter your records to reflect the entity name change. Attached is a spreadsheet listing all wells affected by this change.

Should you have any questions, please call me at 303 - 308-3056.

Yours truly,



Frank Nielsen  
Division Landman

Enclosure

RECEIVED

JUN 02 2003

DIV. OF OIL, GAS & MINING

SEI (N235) to QEP (N2460) BRENNAN BOTTOM UNIT

well_name	Sec	T	R	api	Entity	Lease Type	type	stat	
BRENNAN FED 5	18	070S	210E	4304715420	5261	Federal	WI	A	
BRENNAN FED 11	18	070S	210E	4304732772	5261	Federal	WI	A	
BRENNAN FED 1	13	070S	200E	4304715417	5261	Federal	OW	P	
BRENNAN FED 9	18	070S	210E	4304732477	5261	Federal	OW	P	
BRENNAN FED 14	18	070S	210E	4304732774	5261	Federal	OW	P	
BRENNAN FED 12	18	070S	210E	4304732779	5261	Federal	OW	P	
BRENNAN FED 10	19	070S	210E	4304732771	5261	State	OW	P	
BRENNAN FED 6	19	070S	210E	4304730109	5261	Fee	OW	P	



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155

IN REPLY REFER TO  
UT-922

June 9, 2003

QEP Uinta Basin, Inc.  
1050 17<sup>th</sup> Street, Suite 500  
Denver, Colorado 80265

Re: Brennan Bottom Unit  
Uintah County, Utah

Gentlemen:

On May 30, 2003, we received an indenture dated February 1, 2003, whereby Shenandoah Energy, Inc. changed its name and QEP Uinta Basin, Inc. was designated as Successor Unit Operator for the Brennan Bottom Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective June 9, 2003. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under Brennan Bottom Unit Agreement.

Your nationwide (Eastern States) oil and gas bond No. B000024 will be used to cover all operations within the Brennan Bottom Unit.

It is requested that you notify all interested parties of the name change of unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks  
Chief, Branch of Fluid Minerals

Enclosure

bcc: Field Manager - Vernal (w/enclosure)  
SITLA  
Division of Oil, Gas & Mining  
Minerals Adjudication Group  
File – Brennan Bottom Unit (w/enclosure)  
Agr. Sec. Chron  
Fluid Chron

UT922:TAThompson:tt:6/9/03



6. (R649-9-2) Waste Management Plan has been received on: IN PLACE

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: 7/21/2003

8. **Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: 7/21/2003

9. **Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

**DATA ENTRY:**

- 1. Changes entered in the **Oil and Gas Database** on: 8/28/2003
- 2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 8/28/2003
- 3. Bond information entered in RBDMS on: n/a
- 4. Fee wells attached to bond in RBDMS on: n/a

**STATE WELL(S) BOND VERIFICATION:**

1. State well(s) covered by Bond Number: 965-003-032

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: ESB000024

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: 799446

**FEE WELL(S) BOND VERIFICATION:**

- 1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 965-003-033
- 2. The **FORMER** operator has requested a release of liability from their bond on: n/a  
The Division sent response by letter on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

**COMMENTS:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**JUL 07 2003**

3104 (932.34)WF  
Nationwide Bond ESB000024

NOTICE

QEP Uinta Basin, Inc.  
1050 17<sup>th</sup> Street Suite 500  
Denver, Colorado 80265

:  
: Oil and Gas  
: lease  
:

Name Change Recognized

Acceptable evidence has been filed in this office concerning the name change of Shenandoah Energy Incorporated into QEP Uinta Basin, Incorporated. QEP Uinta Basin, Incorporated is the surviving entity. This name change is recognized effective April 17, 2003.

Eastern States will notify the Minerals Management Service and all applicable Bureau of Land Management offices of the change by a copy of this notice.

If you identify other leases in which the merging entity maintain an interest, please contact this office and we will appropriately document those files with a copy of this notice.

If you have any questions, please contact Bill Forbes at 703-440-1536.

*S/ Wilbert B. Forbes*

Wilbert B. Forbes  
Land Law Examiner  
Branch of Use Authorization  
Division of Resources Planning,  
Use and Protection

bc: JFO, MMS, ES RF, 930 RF, 932.34 RF, E-932: wbf:07 /07/03:440-1536/ QEP Uinta Basin  
MFO

**Division of Oil, Gas and Mining**  
**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. DJJ
2. CDW

Change of Operator (Well Sold)

**X - Operator Name Change/Merger**

The operator of the well(s) listed below has changed, effective:

**1/1/2007**

<b>FROM:</b> (Old Operator): N2460-QEP Uinta Basin, Inc. 1050 17th St, Suite 500 Denver, CO 80265  Phone: 1 (303) 672-6900	<b>TO:</b> ( New Operator): N5085-Questar E&P Company 1050 17th St, Suite 500 Denver, CO 80265  Phone: 1 (303) 672-6900
---	--

CA No.		Unit:		BRENNAN BOTTOM UNIT				
WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SEE ATTACHED LISTS				*				

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/19/2007
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/16/2007
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 1/31/2005
- Is the new operator registered in the State of Utah: Business Number: 764611-0143
- (R649-9-2)Waste Management Plan has been received on: IN PLACE
- Inspections of LA PA state/fee well sites complete on: n/a
- Reports current for Production/Disposition & Sundries on: n/a
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 4/23/2007 BIA
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: 4/23/2007
- Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: \_\_\_\_\_
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: \_\_\_\_\_

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 4/30/2007 and 5/15/2007
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 4/30/2007 and 5/15/2007
- Bond information entered in RBDMS on: 4/30/2007 and 5/15/2007
- Fee/State wells attached to bond in RBDMS on: 4/30/2007 and 5/15/2007
- Injection Projects to new operator in RBDMS on: 4/30/2007 and 5/15/2007
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: ESB000024
- Indian well(s) covered by Bond Number: 799446
- (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 965003033
- The **FORMER** operator has requested a release of liability from their bond on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

**COMMENTS: THIS IS A COMPANY NAME CHANGE.**

**SOME WELL NAMES HAVE BEEN CHANGED AS REQUESTED**

QEP Uinta Basin (N2460) to QUESTAR E and P (N5085)  
BRENNAN BOTTOM UNIT

4/30/2007 and 5/15/2007

Original Well Name	Well Name & No.	Q/Q	SEC	TWP	RNG	API	Entity	Lease	Well Type	Status
BRENNAN FED 1	BRENNAN 1	NESE	13	070S	200E	4304715417	5261	Federal	OW	P
BRENNAN FED 3	BRENNAN 3	NESE	17	070S	210E	4304715419	10750	Federal	OW	P
BRENNAN FED 5	BRENNAN 5	SESW	18	070S	210E	4304715420	5261	Federal	WI	A
GULF BRENNAN FED 8	BRENNAN 8	SWSE	17	070S	210E	4304731509	5290	Federal	OW	P
BRENNAN FED 9	BRENNAN 9	NWSE	18	070S	210E	4304732477	5261	Federal	OW	P
BRENNAN FED 11	BRENNAN 11	SESW	18	070S	210E	4304732772	5261	Federal	WI	A
BRENNAN 14	BRENNAN 14	NWNW	18	070S	210E	4304732774	5261	Federal	OW	P
BRENNAN FED 12	BRENNAN 12	NWNE	18	070S	210E	4304732779	5261	Federal	OW	S
BBW 11G-20-7-21	BBW 11G-20-7-21	NESW	20	070S	210E	4304736516	15176	Federal	OW	P
BRENNAN FED 6	BRENNAN 6	NWNW	19	070S	210E	4304730109	5261	Fee	OW	P
BRENNAN FED 10	BRENNAN 10	NWNE	19	070S	210E	4304732771	5261	State	OW	P

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: see attached
2. NAME OF OPERATOR: QUESTAR EXPLORATION AND PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: see attached
3. ADDRESS OF OPERATOR: 1050 17th Street Suite 500 City Denver STATE CO ZIP 80265		7. UNIT or CA AGREEMENT NAME: see attached
4. LOCATION OF WELL FOOTAGES AT SURFACE: attached		8. WELL NAME and NUMBER: see attached
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		9. API NUMBER: attached
COUNTY: Uintah		10. FIELD AND POOL, OR WILDCAT:
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>1/1/2007</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Operator Name Change</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

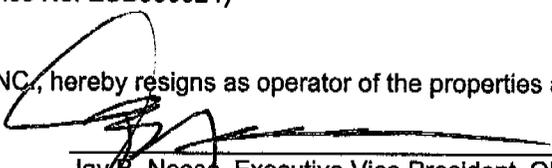
Effective January 1, 2007 operator of record, QEP Uinta Basin, Inc., will hereafter be known as QUESTAR EXPLORATION AND PRODUCTION COMPANY. This name change involves only an internal corporate name change and no third party change of operator is involved. The same employees will continue to be responsible for operations of the properties described on the attached list. All operations will continue to be covered by bond numbers:

Federal Bond Number: 965002976 (BLM Reference No. ESB000024)

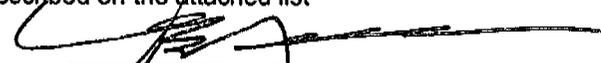
Utah State Bond Number: 965003033

Fee Land Bond Number: 965003033

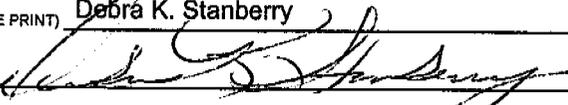
Current operator of record, QEP UINTA BASIN, INC., hereby resigns as operator of the properties as described on the attached list.

  
Jay B. Neese, Executive Vice President, QEP Uinta Basin, Inc.

Successor operator of record, QUESTAR EXPLORATION AND PRODUCTION COMPANY, hereby assumes all rights, duties and obligations as operator of the properties as described on the attached list

  
Jay B. Neese, Executive Vice President  
Questar Exploration and Production Company

NAME (PLEASE PRINT) Debra K. Stanberry TITLE Supervisor, Regulatory Affairs

SIGNATURE  DATE 3/16/2007

(This space for State use only)

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APR 19 2007

DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

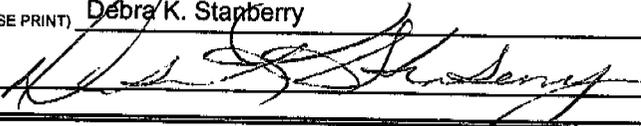
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: see attached
2. NAME OF OPERATOR: QUESTAR EXPLORATION AND PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: see attached
3. ADDRESS OF OPERATOR: 1050 17th Street Suite 500 City: Denver STATE: CO ZIP: 80265		7. UNIT or CA AGREEMENT NAME: see attached
4. LOCATION OF WELL FOOTAGES AT SURFACE: attached		8. WELL NAME and NUMBER: see attached
PHONE NUMBER: (303) 308-3068		9. API NUMBER: attached
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		10. FIELD AND POOL, OR WILDCAT:
COUNTY: Uintah		
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>1/1/2007</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Well Name Changes</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

PER THE ATTACHED LIST OF WELLS, QUESTAR EXPLORATION AND PRODUCTION COMPANY REQUESTS THAT THE INDIVIDUAL WELL NAMES BE UPDATED IN YOUR RECORDS.

NAME (PLEASE PRINT) <u>Debra K. Stanberry</u>	TITLE <u>Supervisor, Regulatory Affairs</u>
SIGNATURE 	DATE <u>4/17/2007</u>

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APR 19 2007  
DIV. OF OIL, GAS & MINING



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155



IN REPLY REFER TO  
3180  
UT-922

April 23, 2007

Questar Exploration and Production Company  
1050 17th Street, Suite 500  
Denver, Colorado 80265

Re: Brennan Bottom Unit  
Uintah County, Utah

Gentlemen:

On April 12, 2007, we received an indenture dated April 6, 2007, whereby QEP Uinta Basin, Inc. resigned as Unit Operator and Questar Exploration and Production Company was designated as Successor Unit Operator for the Brennan Bottom Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective April 23, 2007. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Brennan Bottom Unit Agreement.

Your nationwide oil and gas bond No. ESB000024 will be used to cover all federal operations within the Brennan Bottom Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Greg J. Noble

Greg J. Noble  
Acting Chief, Branch of Fluid Minerals

### Enclosure

bcc: Field Manager - Vernal (w/enclosure)  
SITLA  
Division of Oil, Gas & Mining  
File - Brennan Bottom Unit (w/enclosure)  
Agr. Sec. Chron  
Reading File  
Central Files

UT922:TAThompson:tt:4/23/07

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APR 30 2007

DIV. OF OIL, GAS & MINING



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER: See attached	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: See attached	
7. UNIT or CA AGREEMENT NAME: See attached	
8. WELL NAME and NUMBER: See attached	
9. API NUMBER: Attached	
10. FIELD AND POOL, OR WILDCAT: See attached	

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
Questar Exploration and Production Company *N5085*

3. ADDRESS OF OPERATOR:  
1050 17th Street, Suite 500 CITY Denver STATE CO ZIP 80265 PHONE NUMBER: (303) 672-6900

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: See attached COUNTY: Attached  
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>6/14/2010</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Operator Name Change</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective June 14, 2010 Questar Exploration and Production Company changed its name to QEP Energy Company. This name change involves only an internal corporate name change and no third party change of operator is involved. The same employees will continue to be responsible for operations of the properties described on the attached list. All operations will continue to be covered by bond numbers:  
Federal Bond Number: 965002976 (BLM Reference No. ESB000024) *N3700*  
Utah State Bond Number: ~~965003033~~ *965010695*  
Fee Land Bond Number: ~~965003033~~ *965010695*  
BIA Bond Number: ~~799446~~ *965010693*

The attached document is an all inclusive list of the wells operated by Questar Exploration and Production Company. As of June 14, 2010 QEP Energy Company assumes all rights, duties and obligations as operator of the properties as described on the list

NAME (PLEASE PRINT) Morgan Anderson TITLE Regulatory Affairs Analyst  
SIGNATURE *Morgan Anderson* DATE 6/23/2010

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JUN 28 2010

DIV. OF OIL, GAS & MINING  
(See Instructions on Reverse Side)

APPROVED 6/13/2010  
*Earlene Russell*  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

Questar Exploration Production Company (N5085) to QEP Energy Company (N3700)  
**BRENNAN BOTTOM**  
 effective June 14, 2010

well_name	sec	twp	rng	api	entity	mineral lease	type
BRENNAN 1	13	070S	200E	4304715417	5261	Federal	OW
BRENNAN 3	17	070S	210E	4304715419	10750	Federal	OW
BRENNAN 6	19	070S	210E	4304730109	5261	Federal	OW
BRENNAN 8	17	070S	210E	4304731509	5290	Federal	OW
BRENNAN 9	18	070S	210E	4304732477	5261	Federal	OW
BRENNAN 10	19	070S	210E	4304732771	5261	State	OW
BRENNAN 14	18	070S	210E	4304732774	5261	Federal	OW
BRENNAN 12	18	070S	210E	4304732779	5261	Federal	OW
BBW 11G-20-7-21	20	070S	210E	4304736516	15176	Federal	OW
BRENNAN 2R	18	070S	210E	4304740125		Federal	OW
BRENNAN 7R	13	070S	200E	4304740197	17632	Federal	OW
BRENNAN 15	13	070S	200E	4304740198	5261	Federal	OW



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155  
<http://www.blm.gov/ut/st/en.html>



IN REPLY REFER TO:  
3100  
(UT-922)

JUL 28 2010

### Memorandum

To: Vernal Field Office, Price Field Office, Moab Field Office

From: Chief, Branch of Minerals

*Roger L. Bankart*

Subject: Name Change Recognized

Attached is a copy of the Certificate of Name Change issued by the Texas Secretary of State and a decision letter recognizing the name change from the ~~Eastern States~~ Office. We have updated our records to reflect the name change in the attached list of leases.

The name change from **Questar Exploration and Production Company** into **QEP Energy Company** is effective June 8, 2010.

cc: MMS  
UDOGM

RECEIVED

AUG 16 2010

DM OF OIL, GAS & MINERAL

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  5. LEASE DESIGNATION AND SERIAL NUMBER: ML-3068
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  7. UNIT or CA AGREEMENT NAME: BRENNAN BOTTOM
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: BRENNAN 10
2. NAME OF OPERATOR: QEP ENERGY COMPANY	9. API NUMBER: 43047327710000
3. ADDRESS OF OPERATOR: 11002 East 17500 South, Vernal, Ut, 84078	PHONE NUMBER: 303 308-3068 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0660 FNL 1980 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 19 Township: 07.0S Range: 21.0E Meridian: S	9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM  COUNTY: UINTAH  STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/1/2012  <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input checked="" type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

QEP ENERGY COMPANY REQUESTS TO DEEPEN THE ABOVE MENTIONED WELL AND DRILL A **HORIZONTAL** OIL WELL WITHIN THE G1 LIME MEMBER OF THE GREEN RIVER FORMATION. NO ADDITIONAL SURFACE DISTURBANCE WILL BE REQUIRED FOR THIS ACTION. A RESERVE PIT WILL BE CONSTRUCTED STAYING WITHIN THE BOUNDARIES OF THE EXISTING DISTURBANCE. BOTTOM HOLE FOOTAGES ARE: 2500' FNL, 1250' FWL, SWNW, SEC. 19, T7S, R21E, 9,368' MD. PLEASE REFER TO ATTACHED DOCUMENTS. QEP ENERGY COMPANY REQUESTS THIS WELL BE FILED AS CONFIDENTIAL.

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

Date: 05-17-12

By: [Signature]

*BH* 618889x      40. 197 170  
 44505774      - 109. 603196

NAME (PLEASE PRINT) Valyn Davis	PHONE NUMBER 435 781-4369	TITLE Regulatory Affairs Analyst
SIGNATURE N/A	DATE 4/23/2012	

Sundry Number: 24991 API Well Number: 43047327710000

T7S, R21E, S.L.B.&M.

QUESTAR EXPLR. & PROD.

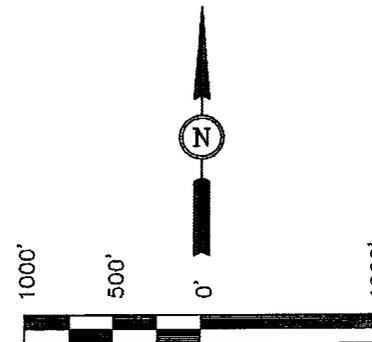
Well location, BRENNAN #10, located as shown in the NW 1/4 NE 1/4 of Section 19, T7S, R21E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

BENCH MARK 38EAM LOCATED IN THE SW 1/4 SW 1/4 OF SECTION 9, T7S, R20E, S.L.B.&M. TAKEN FROM THE PELICAN LAKE, QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4942 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



SCALE CERTIFICATE

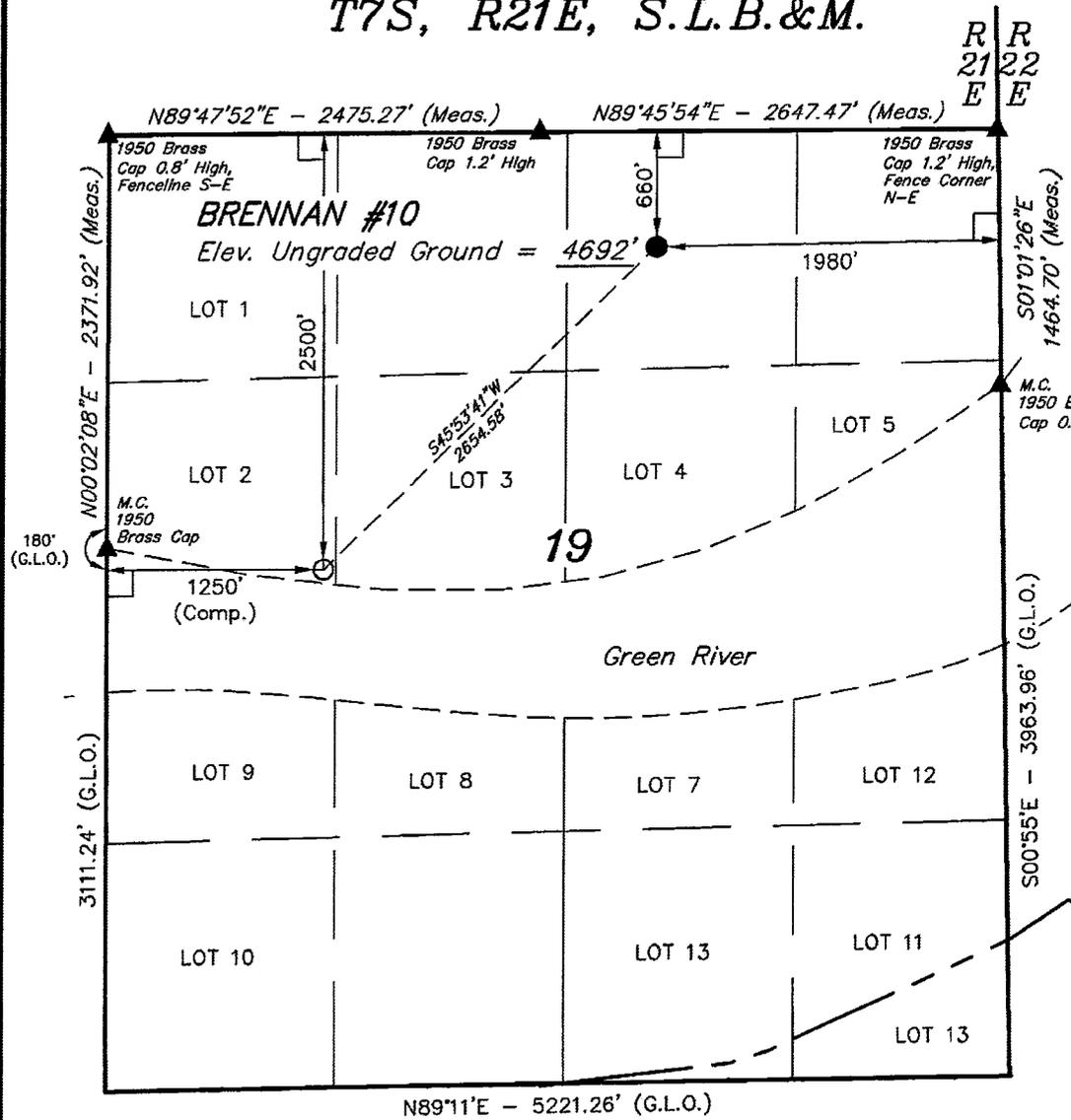
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

ROBERT L. KAY  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161319  
 STATE OF UTAH

REVISED: 03-27-12 C.A.G.

**UINTAH ENGINEERING & LAND SURVEYING**  
 85 SOUTH 200 EAST - VERNAL, UTAH 84078  
 (435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 06-20-07	DATE DRAWN: 06-26-07
PARTY D.A. T.A. L.K.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE QUESTAR EXPLR. & PROD.	



LEGEND:

- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

AUTONOMOUS NAD 83 (TARGET BOTTOM HOLE) LATITUDE = 40°11'49.68" (40.197133) LONGITUDE = 109°36'11.40" (109.603167)	AUTONOMOUS NAD 83 (SURFACE LOCATION) LATITUDE = 40°12'07.92" (40.202200) LONGITUDE = 109°35'46.82" (109.596339)
NAD 27 (TARGET BOTTOM HOLE) LATITUDE = 40°11'49.81" (40.197169) LONGITUDE = 109°36'08.91" (109.602475)	NAD 27 (SURFACE LOCATION) LATITUDE = 40°12'08.05" (40.202236) LONGITUDE = 109°35'44.33" (109.595647)

## **QEP ENERGY**

### **Brennan 10**

**API: 43-047-32771**

### **Summarized Re-Entry Procedure**

1. Rig down pumping unit, clear location of all unnecessary equipment.
2. MIRU pulling unit.
3. ND tubing head, NU BOP's (3M).
4. Pull out of hole with rods and pump.
5. Unseat tubing anchor and POOH with tubing, TAC, PSN, and pup joints.
6. PU bit and 5 1/2" casing scraper, RIH to PBTD.
7. Roll hole with KCl or NaCl water, TOO H with bit and scraper.
8. RU wire line truck and RIH with CIBP and set above collar closest to 6,518'.
9. ND BOP's
10. RD pulling unit, move off location.
11. MIRU drilling rig.
12. NU rig's 3,000 WP rated BOP.
13. RIH with whipstock, orient and set whipstock on top of CIBP
14. Shear setting pins and start milling operations, mill window in 5 1/2" casing. Work mills in and out of window several times.
15. TOO H, PU directional BHA and gyro tool, TIH.
16. Gyro steer the well until the MWD tools have cleared the casing and are providing accurate readings.
17. Pull gyro tool and continue to drill with MWD to land in the HP Lime formation.
18. Drill ~2,300' of lateral in the HP Lime with a 0.8° apparent up dip angle.
  - a. Mud system to be water based mud, weights are expected to be in the 8.8 – 10.0 ppg range.
19. Circulate and condition hole, TOO H.
  - a. PU 3 1/2" flush joint liner and run through the lateral and curve.
  - b. RIH w/ liner and liner drop off tool, leave liner approximately 100' above top of window.
  - c. TOO H laying down remainder of the drill pipe.
20. RIH and set CBP @ +/- 6,000' to isolate lateral.
21. ND BOP's.
22. RDMOL.

**QEP ENERGY COMPANY**

Brennan 10

SHL: 660' FNL & 1,980' FEL Section 19 T7S R21E

BHL: 2,500' FNL & 1,250' FWL Section 19 T7S R21E

Uintah County, Utah

**DRILLING PROGRAM**

**ONSHORE OIL & GAS ORDER NO. 1**

Approval of Operations on Onshore

Federal Oil and Gas Leases

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil & Gas No. 1, and the approved plan of operations. The operator is fully responsible for the actions of its subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

**1. Formation Tops**

The estimated tops of important geologic markers are as follows:

<u>Formation</u>	<u>Depth, TVD</u>	<u>Depth, MD</u>
Green River	3,382'	3,382'
Kick Off Point	6,509'	6,509'
G1 Lime Top	6,532'	6,532'
G1 Lime Base	6,538	6,538'
H4A Lime Top	6,865'	7,038'
TD	6,835'	9,368'

**2. Anticipated Depths of Oil, Gas, Water, and Other Mineral Bearing Zones**

The estimated depths at which the top and bottom of the anticipated water, oil, gas, or other mineral bearing formations are expected to be encountered as follows:

<u>Substance</u>	<u>Formation</u>	<u>Depth, TVD</u>	<u>Depth, MD</u>
Oil/Gas	Green River (G1 Lime)	6,532' - 6,538'	6,532' - 9,368'

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

All water shows and water-bearing sands will be reported to the BLM in Vernal, Utah. Copies of State of Utah form OGC-8-X are acceptable. If flows are detected, samples will be submitted to the BLM along with any water analyses conducted. Fresh water will be obtained from Wonsits Valley water right #49-251 (which was filed on May 7, 1964) or Red Wash water right # 49-2153 (which was filed on March 25, 1960). It was determined by the Fish and Wildlife Service

**QEP ENERGY COMPANY**

Brennan 10

SHL: 660' FNL & 1,980' FEL Section 19 T7S R21E

BHL: 2,500' FNL & 1,250' FWL Section 19 T7S R21E

Uintah County, Utah

that any water right number filed before 1989 is not depleting to the Upper Colorado River System, to supply fresh water for drilling purposes. All water resulting from drilling operations will be disposed of at LaPoint Recycling and Storage in Section 12, T5S R19E of Uintah County, UT or Red Wash Disposal site; SESE, Section 28, T7S, R23E or West End Disposal Site; NESE, Section 28, T7S, R22E.

**3. Operator's Specification for Pressure Control Equipment**

- A. 3,000 psi double gate, 3,000 psi annular (schematic attached)
- B. Function test daily.
- C. All casing strings shall be pressure tested (0.22 psi/ft or 1,500 psi, whichever is greater) prior to drilling the plug after cementing; test pressure shall not exceed the internal yield of the casing.
- D. Ram type preventers and associated equipment shall be tested to rated working pressure if isolated by a test plug or to 50% of the internal yield pressure of casing, whichever is less. BOP and related equipment shall meet the minimum requirements of Onshore Oil & Gas Order No. 2 for equipment and testing requirements, procedures, etc..., for a 3M system and individual components shall be operable as designed.

**4. Casing Program**

As this well is a re-entry of an existing well the surface and production casing strings are already in place as detailed below.

Hole Size	Casing Size	Depth, MD	Weight	Grade	Condition	MW
12 1/4"	8 5/8"	665'	24	K-55	Existing	N/A
7 7/8"	5 1/2"	7,060'	17.0	L-80	Existing	N/A

The lateral portion of this wellbore will be cased.

Hole Size	Casing Size	Top, MD	Bottom, MD	Weight	Grade	Condition	MW
4 3/4"	3 1/2" flush	6,400'	9,368'	9.2	P-110	New	8.8-10ppg

This liner will be placed on bottom and not cemented. The liner will have a pre-perforated joints placed every 3<sup>rd</sup> joint in the lateral. Please refer to the attached wellbore diagram and re-entry procedure for further details.

QEP ENERGY COMPANY

Brennan 10

SHL: 660' FNL & 1,980' FEL Section 19 T7S R21E

BHL: 2,500' FNL & 1,250' FWL Section 19 T7S R21E

Uintah County, Utah

5. Auxilliary Equipment

- A. Kelly Cock – Yes
- B. Float at the bit – No
- C. Monitoring equipment on the mud system – visually and/or PVT or Flow Show
- D. Fully opening safety valve on the rig floor – Yes
- E. Rotating Head – Yes

If drilling with air the following will be used:

- F. The blooie line shall be at least 6" in diameter and extend at least 100' from the wellbore into the reserve/blooie pit.
- G. Blooie line ignition shall be provided by a continuous pilot (ignited when drilling below 500')
- H. Compressor shall be tied directly to the blooie line through a manifold
- I. A mister with a continuous stream of water shall be installed near the end of the blooie lines for dust suppression.

Drilling of the lateral will be done with fresh water KCl based mud systems consisting primarily of fresh water, bentonite, lignite, caustic, lime, soda ash, polymers, and KCl. No chromates will be used. It is not intended to use oil in the mud, however, in the event it is used the concentration will be less than 4% by volume. Maximum anticipated mud weight is 9.8 ppg.

No minimum quantity of weight material will be required to be kept on location.

PVT/Flow show will be used upon exit of existing production casing to TD.

Gas detector will be used upon exit of existing production casing to TD.

QEP ENERGY COMPANY

Brennan 10

SHL: 660' FNL & 1,980' FEL Section 19 T7S R21E

BHL: 2,500' FNL & 1,250' FWL Section 19 T7S R21E

Uintah County, Utah

6. **Testing, Logging, and Coring Program**

- A. Cores – None Anticipated
- B. DST – None Anticipated
- C. Logging:
  - i. Mud logging from casing exit to TD
  - ii. MWD-GR will be utilized during drilling operations to aid in landing the curve and maintaining the lateral within the desired zone.
- D. Formation and completion interval: G1 Lime interval, final determination of completion will be made by analysis of mud logging data. Stimulation: stimulation will be designed for the particular area of interest encountered.

7. **Cementing Program**

As this is a re-entry well and the newly drilled lateral will be cased off with a liner dropped in the open hole there will be no cement required to drill this well. Please refer to the attached wellbore diagram for existing casing and cement conditions.

8. **Anticipated Abnormal Pressures and Temperatures, Other Potential Hazards**

No abnormal temperatures or pressures are anticipated. No H<sub>2</sub>S has been encountered or is known to exist from previous wells drilled to similar depths in the general area. Maximum anticipated bottom-hole pressure equals approximately 3,400 psi. Maximum anticipated bottom hole temperature is approximately 150°F.

QEP ENERGY COMPANY

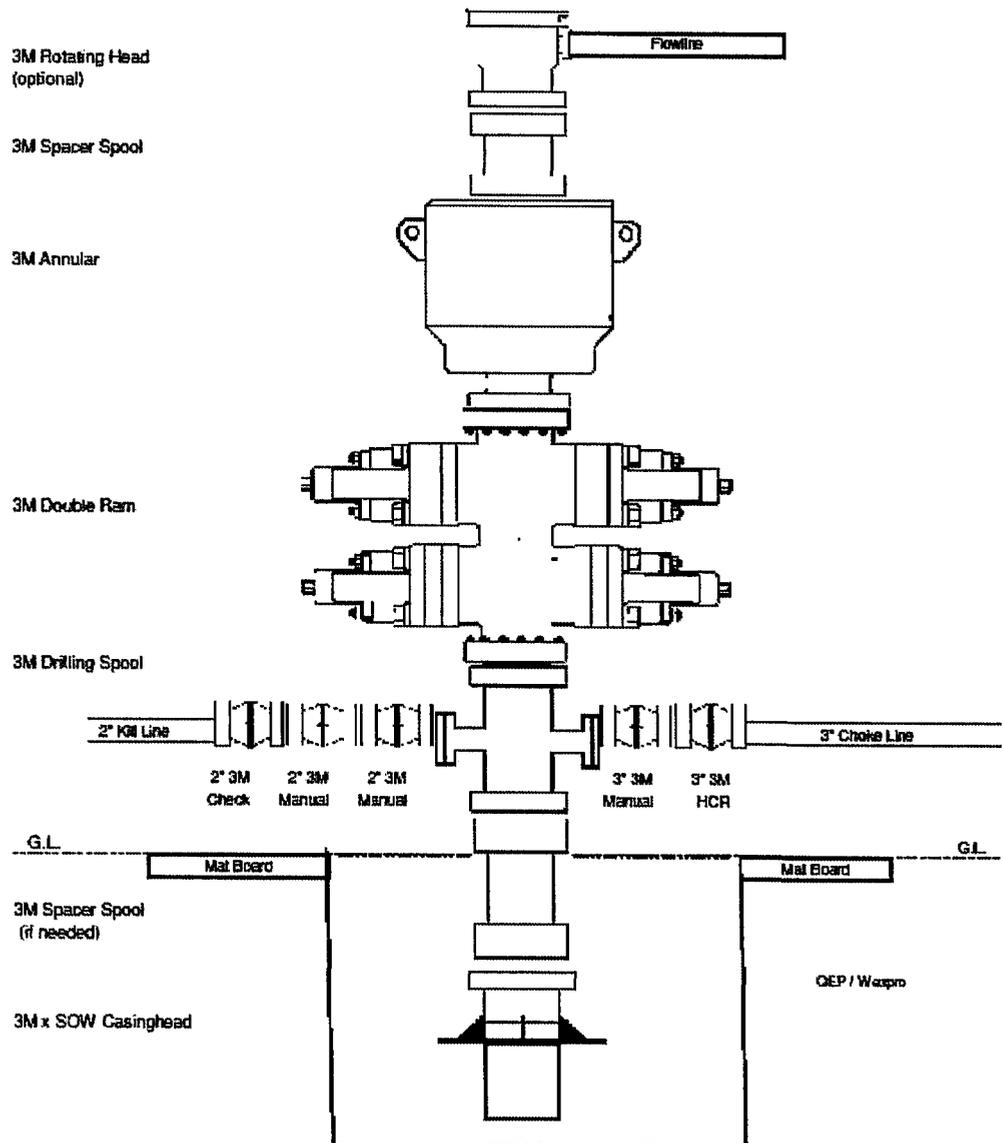
Brennan 10

SHL: 660' FNL & 1,980' FEL Section 19 T7S R21E

BHL: 2,500' FNL & 1,250' FWL Section 19 T7S R21E

Uintah County, Utah

**QUESTAR / WEXPRO  
3M BOP x 3M Annular  
Minimum Requirements**



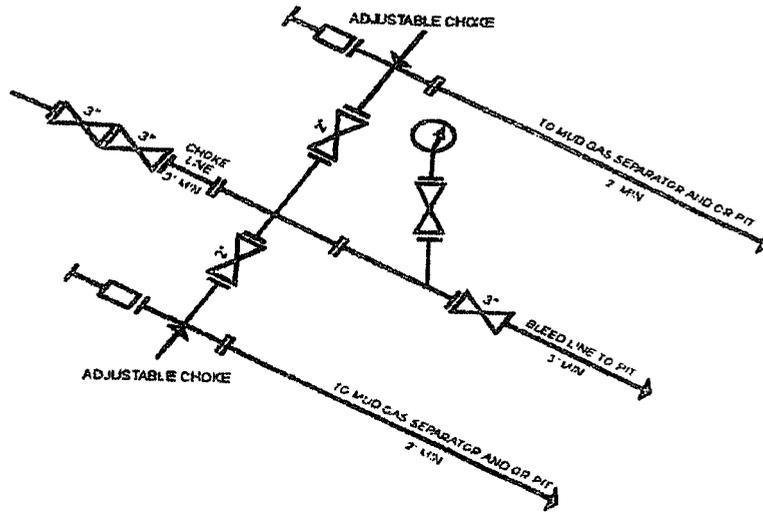
QEP ENERGY COMPANY

Brennan 10

SHL: 660' FNL & 1,980' FEL Section 19 T7S R21E

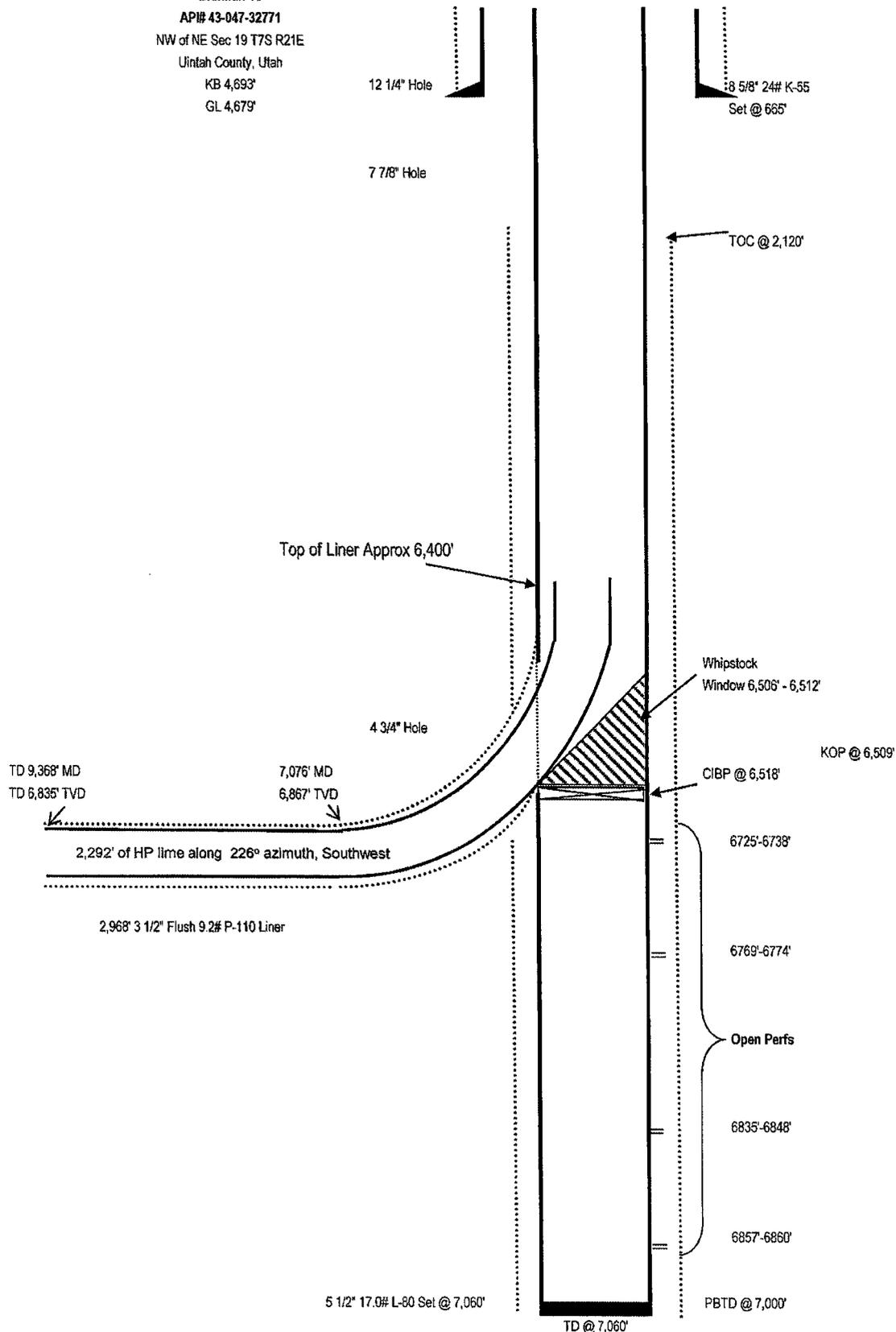
BHL: 2,500' FNL & 1,250' FWL Section 19 T7S R21E

Uintah County, Utah



3M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY  
[54 FR 39528, Sept. 27, 1989]

**Brennan 10**  
API# 43-047-32771  
NW of NE Sec 19 T7S R21E  
Uintah County, Utah  
KB 4,693'  
GL 4,679'



# QUESTAR EXPLR. & PROD. BRENNAN #10

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 19, T7S, R21E, S.L.B.&M.

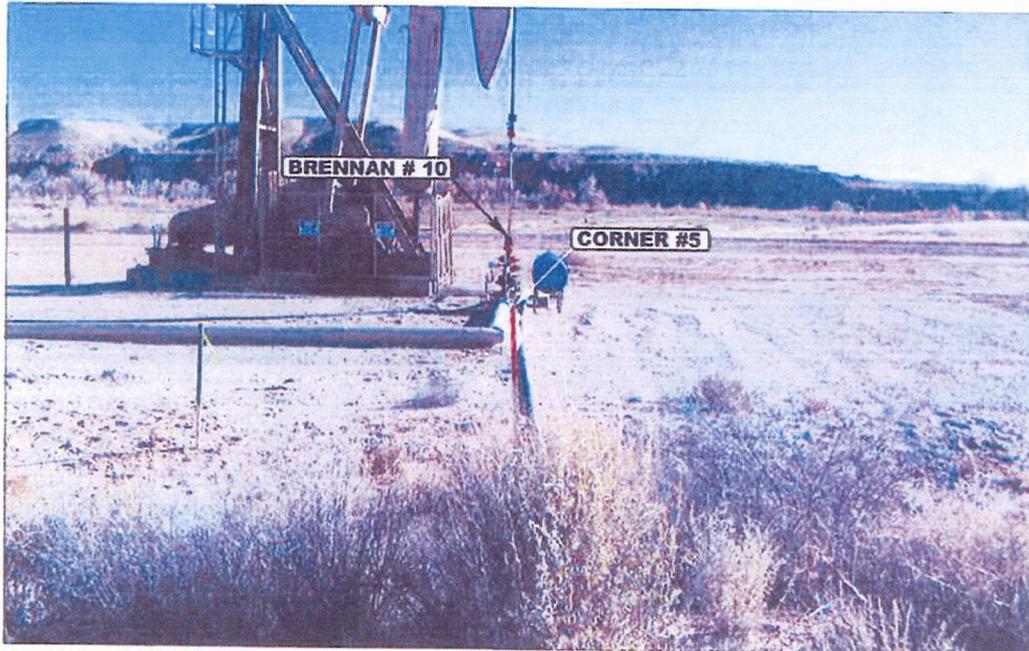


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHEASTERLY

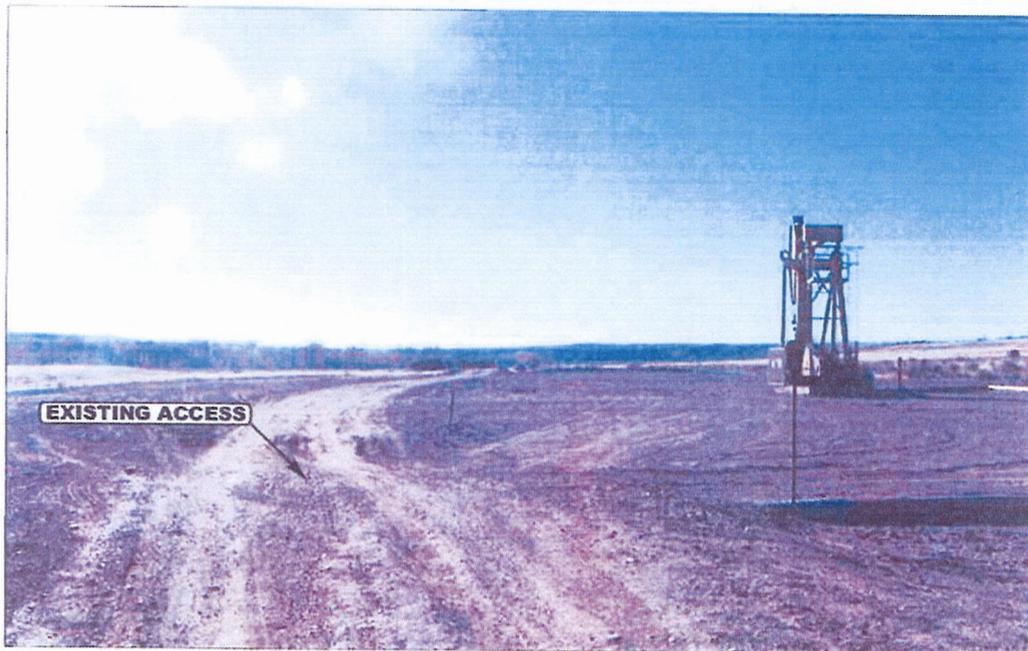


PHOTO: VIEW OF EXISTING ACCESS

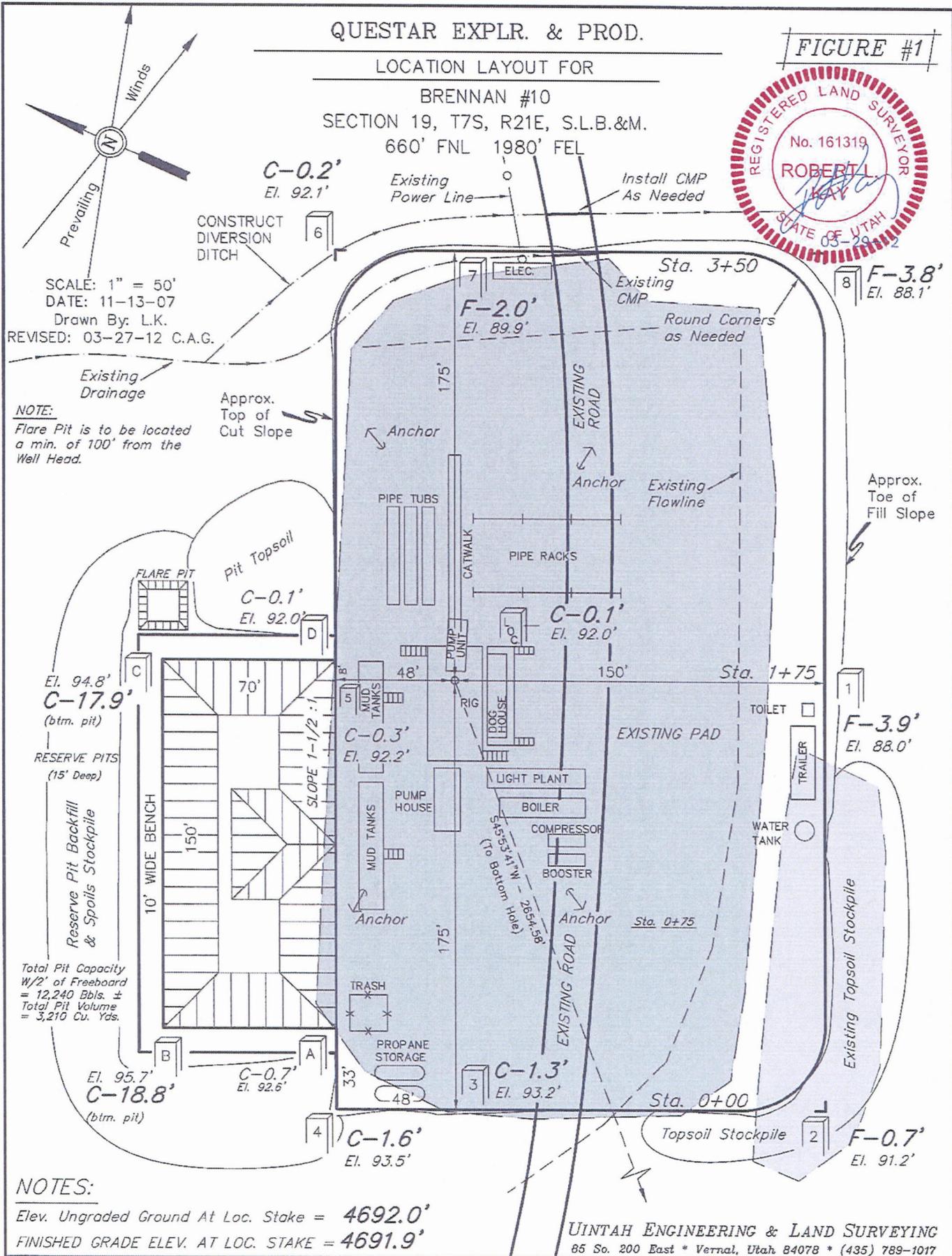
CAMERA ANGLE: SOUTHWESTERLY



Since 1964

**UELS** Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

<b>LOCATION PHOTOS</b>			<b>11</b>	<b>08</b>	<b>07</b>	<b>PHOTO</b>
			MONTH	DAY	YEAR	
TAKEN BY: D.A.	DRAWN BY: Z.L.	REVISED: 00-00-00				



**QUESTAR EXPLR. & PROD.**

**FIGURE #2**

**TYPICAL CROSS SECTIONS FOR**

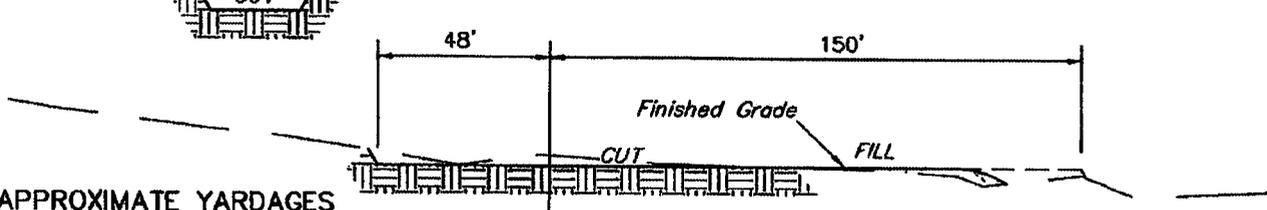
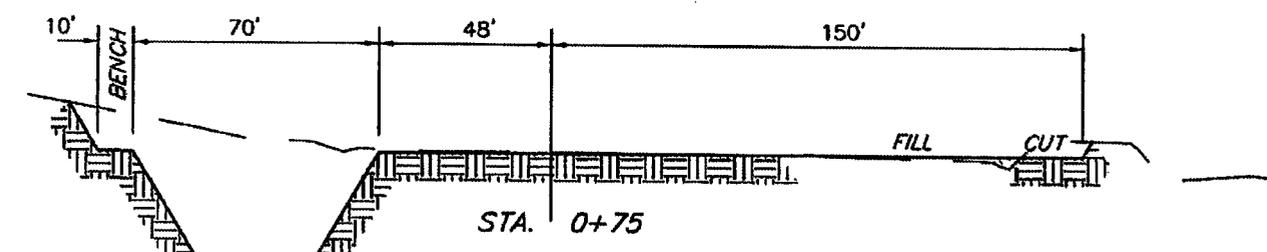
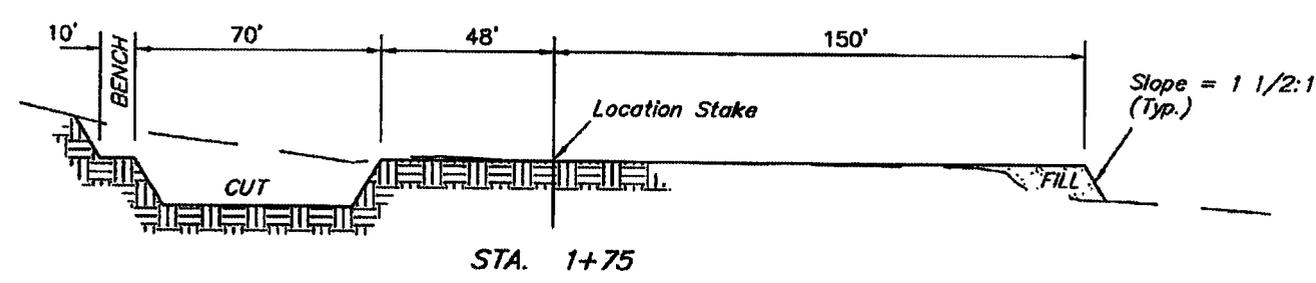
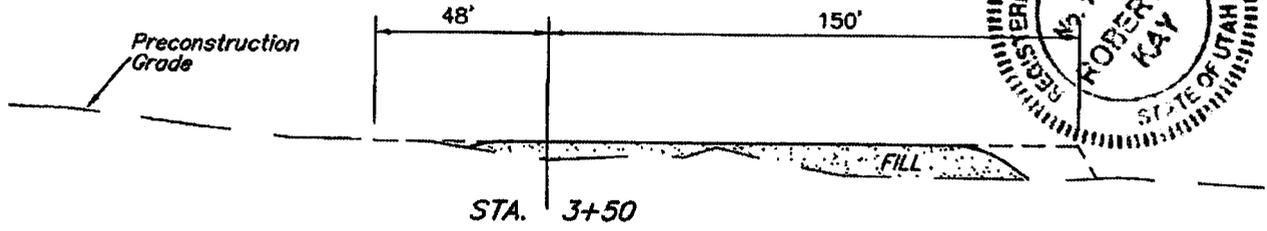
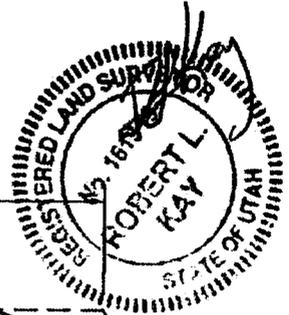
**BRENNAN #10**

**SECTION 19, T7S, R21E, S.L.B.&M.**

**660' FNL 1980' FEL**

X-Section Scale  
1" = 20'  
1" = 50'

DATE: 11-13-07  
Drawn By: L.K.



**APPROXIMATE YARDAGES**

<b>CUT</b>		<b>STA. 0+00</b>
(6") Topsoil Stripping	=	540 Cu. Yds.
(New Construction Only)		
Remaining Location	=	4,330 Cu. Yds.
<b>TOTAL CUT</b>	=	<b>4,870 CU.YDS.</b>
<b>FILL</b>	=	<b>2,110 CU.YDS.</b>
Excess Material	=	2,760 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	2,150 Cu. Yds.
<b>EXCESS UNBALANCE</b>	=	<b>610 Cu. Yds.</b>
(After Interim Rehabilitation)		

\* NOTE:  
FILL QUANTITY INCLUDES  
5% FOR COMPACTION

**APPROXIMATE ACREAGES**

**WELL SITE DISTURBANCE = ±1.991 ACRES**

**QUESTAR EXPLR. & PROD.**

**FIGURE #3**

**INTERIM RECLAMATION PLAN FOR**

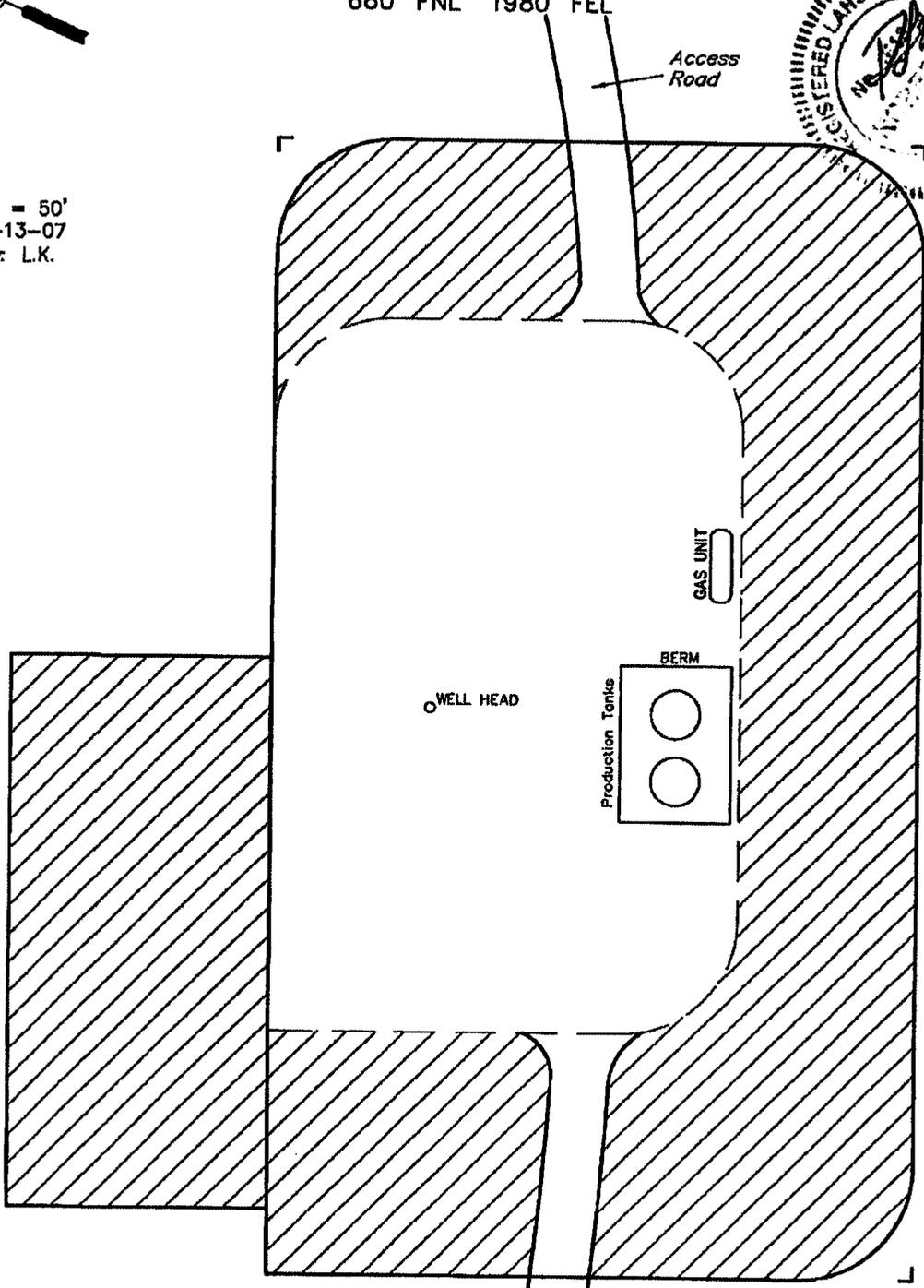
**BRENNAN #10**

**SECTION 19, T7S, R21E, S.L.B.&M.**

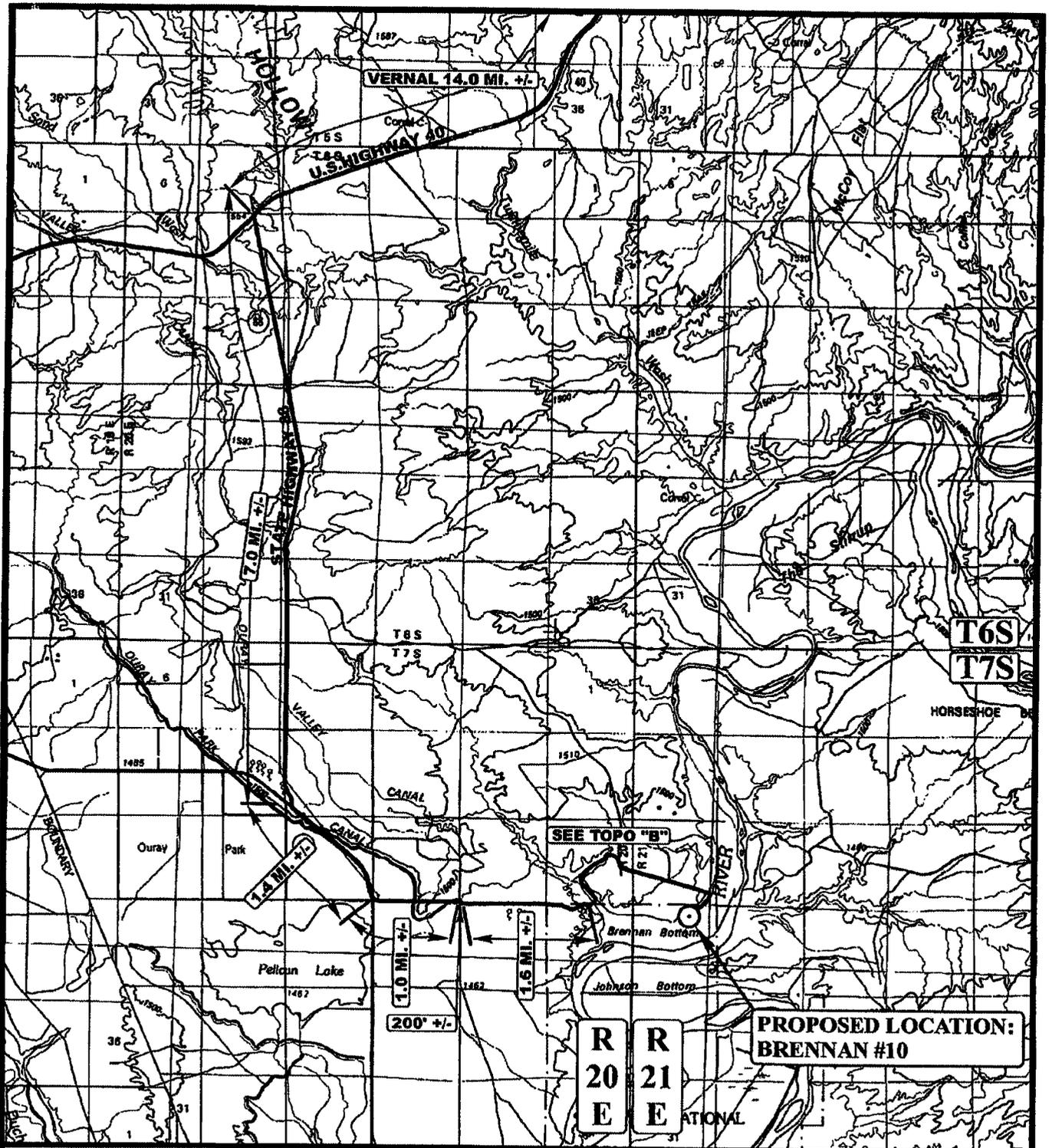
**660' FNL 1980' FEL**



SCALE: 1" = 50'  
DATE: 11-13-07  
Drawn By: L.K.



 INTERIM RECLAMATION



**LEGEND:**

⊙ PROPOSED LOCATION

**QUESTAR EXPLR. & PROD.**

**BRENNAN #10**  
**SECTION 19, T7S, R21E, S.L.B.&M.**  
**660' FNL 1980' FEL**

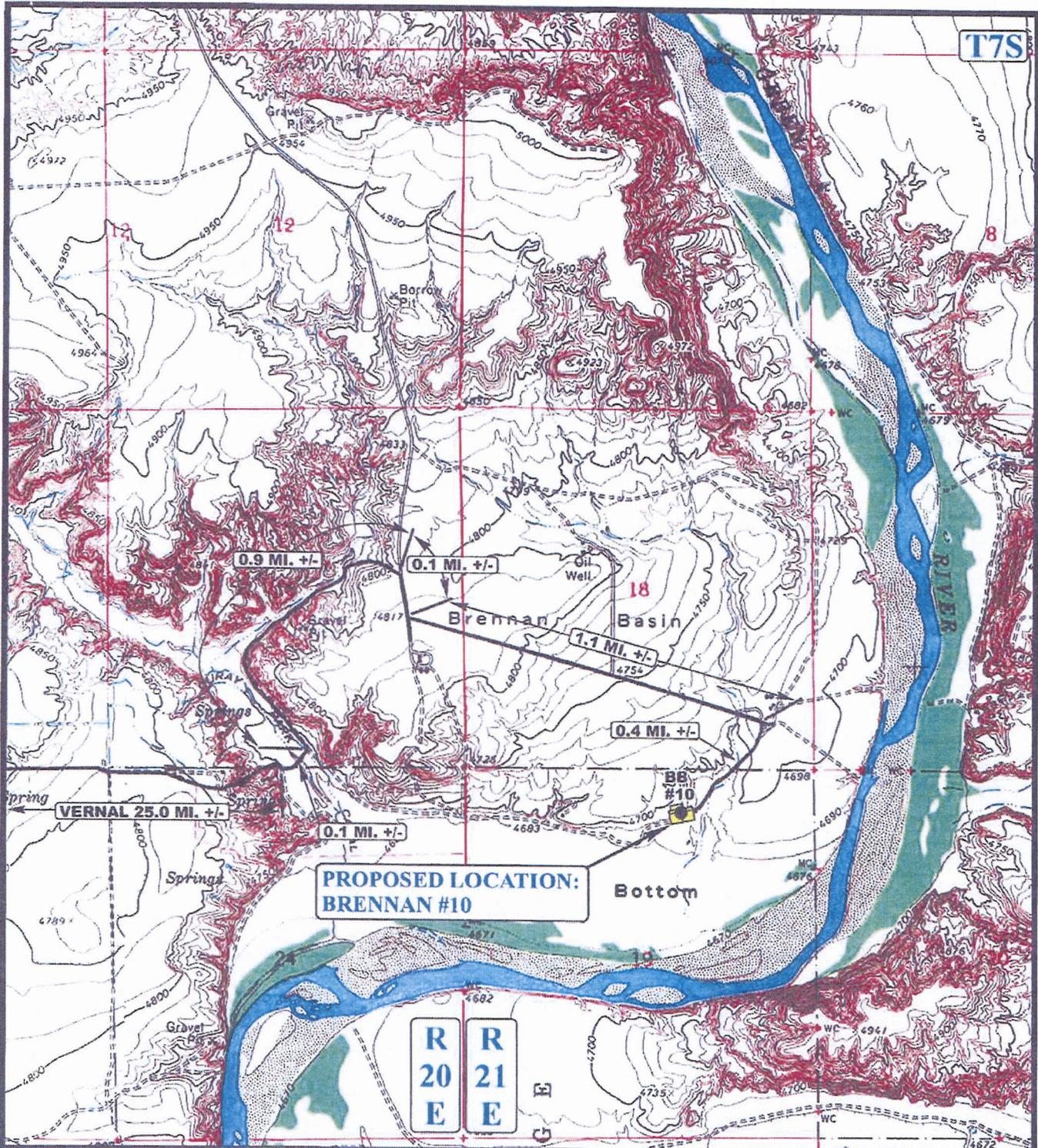


**Utah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



**TOPOGRAPHIC** 11 08 07  
**MAP** MONTH DAY YEAR  
 SCALE: 1:100,000 DRAWN BY: Z.L. REVISED: 00-00-00





**LEGEND:**

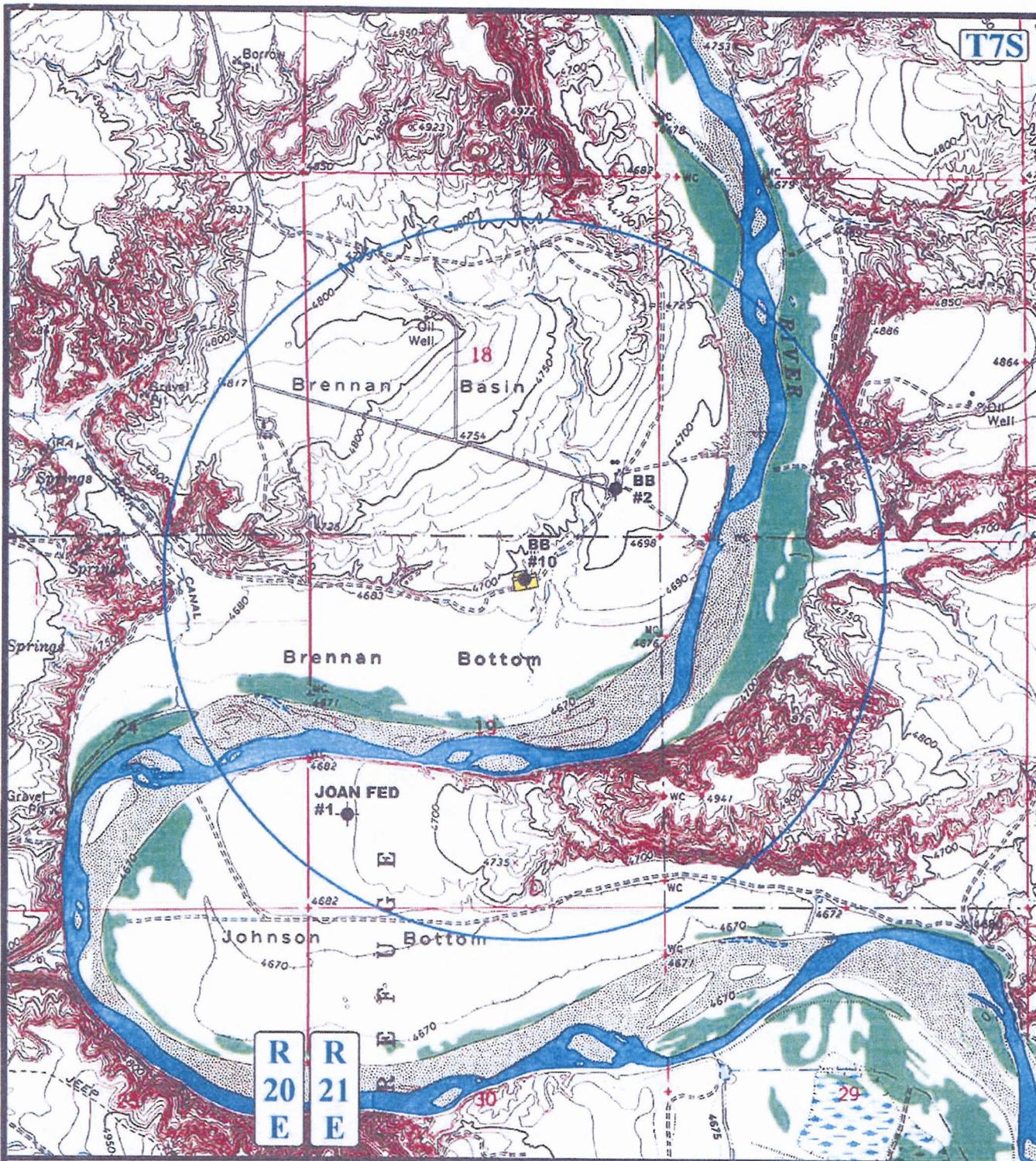
— EXISTING ROAD

**QUESTAR EXPLR. & PROD.**

**BRENNAN #10**  
**SECTION 19, T7S, R21E, S.L.B.&M.**  
**660' FNL 1980' FEL**

**UEIS**  
Utah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC MAP** 11 08 07  
MONTH DAY YEAR  
SCALE: 1" = 2000' DRAWN BY: Z.L. REVISED: 00-00-00 **B**  
TOPO



**LEGEND:**

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

**QUESTAR EXPLR. & PROD.**

**BRENNAN #10**  
**SECTION 19, T7S, R21E, S.L.B.&M.**  
**660' FNL 1980' FEL**



**Utah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



**TOPOGRAPHIC MAP** 11 08 07  
 MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: Z.L. REVISED: 08-14-07



**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 04/23/2012

API NO. ASSIGNED: 43-047-32771

WELL NAME: BRENNAN 10  
 OPERATOR: QEP ENERGY COMPANY ( N3700 )  
 CONTACT: VALYN DAVIS

PHONE NUMBER: 435-781-4369

PROPOSED LOCATION:

NWNE 19 070S 210E  
 SURFACE: 0660 FNL 1980 FEL  
 BOTTOM: 2500 FNL 1250 FWL  
 COUNTY: UINTAH  
 LATITUDE: 40.20225 LONGITUDE: -109.59635  
 UTM SURF EASTINGS: 619463 NORTHINGS: 4451150  
 FIELD NAME: BRENNAN BOTTOM ( 560 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 3 - State  
 LEASE NUMBER: ML-3068  
 SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[] Ind[] Sta[] Fee[]  
(No. 965010695 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. 49-2153 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

- R649-2-3. \* Horizontal
- Unit: BRENNAN BOTTOM
- R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit  
Board Cause No: \_\_\_\_\_  
Eff Date: \_\_\_\_\_  
Siting: \_\_\_\_\_
- R649-3-11. Directional Drill

COMMENTS: \_\_\_\_\_

\_\_\_\_\_

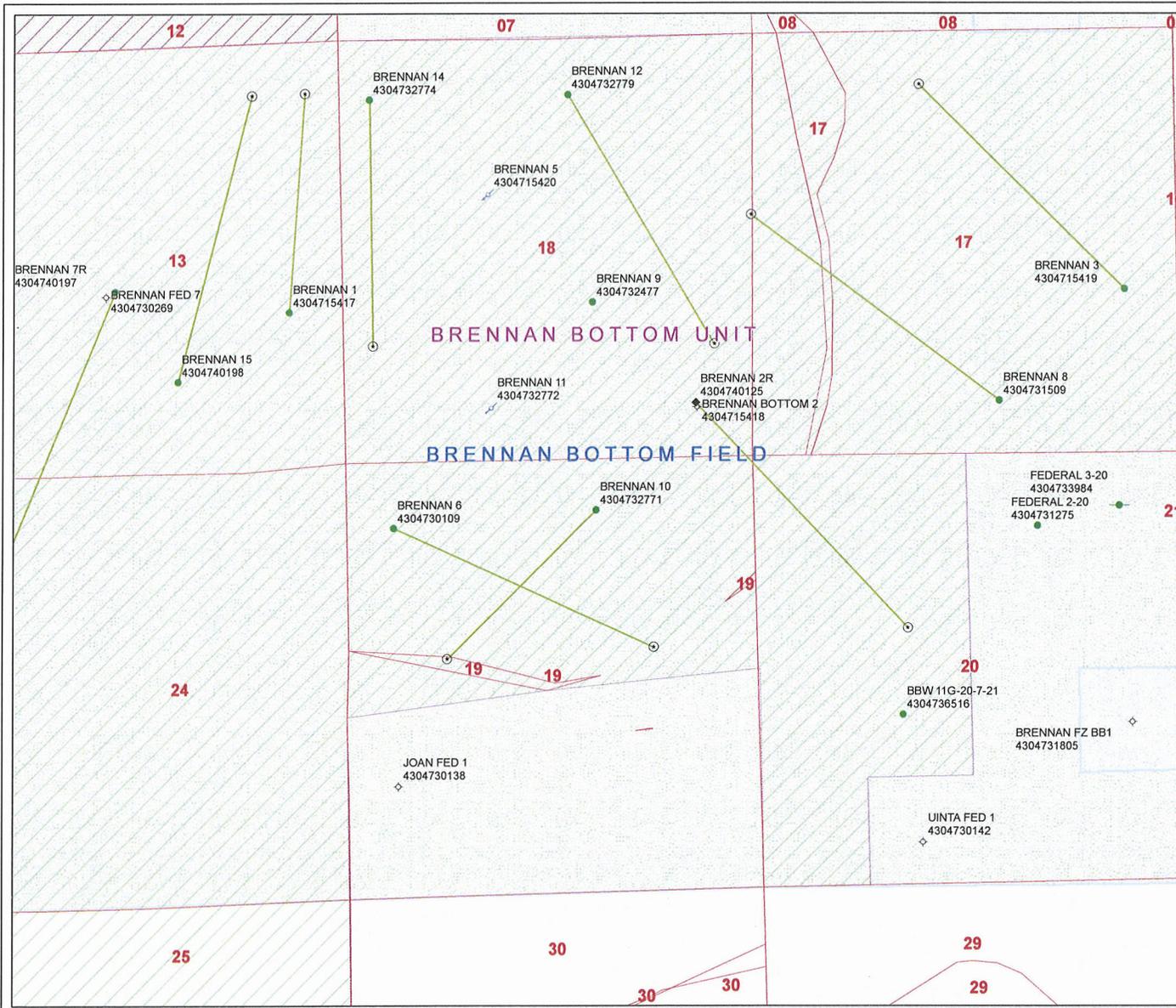
\_\_\_\_\_

STIPULATIONS: \_\_\_\_\_

1. Federal Approval  
2. Spacing 575'

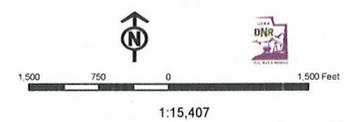
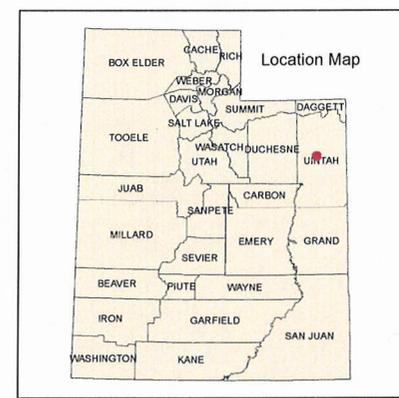
\_\_\_\_\_

\_\_\_\_\_



**API Number: 4304732771**  
**Well Name: BRENNAN 10**  
 Township T0.7 . Range R2.1 . Section 19  
 Meridian: SLBM  
 Operator: QEP ENERGY COMPANY  
 Map Prepared:  
 Map Produced by Diana Mason

Units	Wells Query
ACTIVE	APD - Approved Permit
EXPLORATORY	DRL - Spudded (Drilling Commenced)
GAS STORAGE	GIW - Gas Injection
NF PP OIL	GS - Gas Storage
NF SECONDARY	LA - Location Abandoned
PI OIL	LOC - New Location
PP GAS	OS - Operation Suspended
PP GEOTHERM	PA - Plugged Abandoned
PP OIL	POW - Producing Oil Well
SECONDARY	RET - Returned APD
TERMINATED	SOW - Shut-in Gas Well
	SOW - Shut-in Oil Well
	TA - Temp Abandoned
	TW - Test Well
	WDW - Water Disposal
	WW - Water Injection Well
	WSW - Water Supply Well



# United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:  
3160  
(UT-922)

April 27, 2012

Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2012 Plan of Development Brennan Bottom Unit,  
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following well will be re-entered and completed horizontally in calendar year 2012 within the Brennan Bottom Unit, Uintah County, Utah

API #	WELL NAME	LOCATION
-------	-----------	----------

(Proposed PZ Green River)

43-047-32771	Brennan 10 Sec 19 T07S R21E 0660 FNL 1980 FEL	
	LAT #1 Sec 19 T07S R21E 2500 FNL 1250 FWL	

This office has no objection to permitting the well at this time.

Michael L. Coulthard

Digitally signed by Michael L. Coulthard  
DN: cn=Michael L. Coulthard, o=Bureau of Land Management,  
ou=Branch of Minerals, email=Michael\_Coulthard@blm.gov, c=US  
Date: 2012.04.27 11:25:06 -0600

bcc: File - Brennan Bottom  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:4-27-12



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

May 17, 2012

QEP Energy Company  
11002 E 17500 S  
Vernal, UT 84078

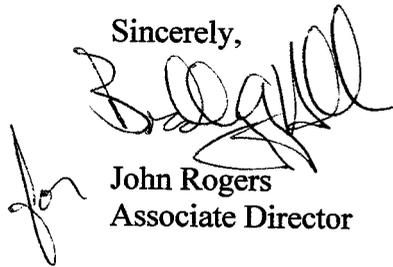
Subject: Brennan 10 Well, Surface Location 660' FNL, 1980' FEL, NW NE, Sec. 19, T. 7 South, R. 21 East, Bottom Location 2500' FNL, 1250' FWL, SW NW, Sec. 19, T. 7 South, R. 21 East, Uintah County, Utah

Ladies and Gentlemen:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of R649-2-3. The expected producing formation or pool is the G1 Lime member of the Green River Formation, completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-32771.

Sincerely,



John Rogers  
Associate Director

JR/js  
Enclosures

cc: Uintah County Assessor  
SITLA  
BLM-Vernal





3. **Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5<sup>th</sup> day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the “Board”). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

6. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML-3068
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b> BRENNAN BOTTOM
<b>2. NAME OF OPERATOR:</b> QEP ENERGY COMPANY		<b>8. WELL NAME and NUMBER:</b> BRENNAN 10
<b>3. ADDRESS OF OPERATOR:</b> 11002 East 17500 South , Vernal, Ut, 84078		<b>9. API NUMBER:</b> 43047327710000
<b>PHONE NUMBER:</b> 303 308-3068 Ext		<b>9. FIELD and POOL or WILDCAT:</b> BRENNAN BOTTOM
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0660 FNL 1980 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 19 Township: 07.0S Range: 21.0E Meridian: S		<b>COUNTY:</b> UINTAH
		<b>STATE:</b> UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 9/28/2012	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

DRILLING OF THIS WELL COMMENCED ON SEPTEMBER 28, 2012.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
October 02, 2012**

<b>NAME (PLEASE PRINT)</b> Valyn Davis	<b>PHONE NUMBER</b> 435 781-4369	<b>TITLE</b> Regulatory Affairs Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/1/2012	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML-3068
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b> BRENNAN BOTTOM
<b>2. NAME OF OPERATOR:</b> QEP ENERGY COMPANY		<b>8. WELL NAME and NUMBER:</b> BRENNAN 10
<b>3. ADDRESS OF OPERATOR:</b> 11002 East 17500 South , Vernal, Ut, 84078		<b>9. API NUMBER:</b> 43047327710000
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0660 FNL 1980 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 19 Township: 07.0S Range: 21.0E Meridian: S		<b>9. FIELD and POOL or WILDCAT:</b> BRENNAN BOTTOM
		<b>COUNTY:</b> UINTAH
		<b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/8/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THIS WELL COMMENCED PRODUCTION ON NOVEMBER 8, 2012 @ 3:00  
p.m.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
November 13, 2012**

<b>NAME (PLEASE PRINT)</b> Valyn Davis	<b>PHONE NUMBER</b> 435 781-4369	<b>TITLE</b> Regulatory Affairs Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 11/12/2012	

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

**CONFIDENTIAL**

FORM 8

WELL IDENTIFICATION REPORT (highlight changes)  
5. LEASE DESIGNATION AND SERIAL NUMBER:  
ML-3068

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME  
BRENNAN BOTTOM

8. WELL NAME and NUMBER:  
BRENNAN 10

9. API NUMBER:  
4304732771

10. FIELD AND POOL, OR WILDCAT  
BRENNAN BOTTOM

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:  
NWNE 19 7S 21E

12. COUNTY  
UINTAH

13. STATE  
UTAH

14. DATE SPUDED:

15. DATE T.D. REACHED:

16. DATE COMPLETED:  
11/7/2012

ABANDONED  READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL):  
5221 GL

18. TOTAL DEPTH: MD 6,843 *8141*  
TVD 6,526 *6511*

19. PLUG BACK T.D.: MD  
TVD

20. IF MULTIPLE COMPLETIONS, HOW MANY? \*

21. DEPTH BRIDGE MD  
PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)  
NONE

23.  
WAS WELL CORED? NO  YES  (Submit analysis)  
WAS DST RUN? NO  YES  (Submit report)  
DIRECTIONAL SURVEY? NO  YES  (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
4.75	3.5 P-1#	9.2	5,903	8,900		NONE			

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.875	5,883							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) GREEN RIVER	6,678	8,900			6,678 8,900	**		Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

27. PERFORATION RECORD

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
6678-8900	50,000 GAL 15% HCL

29. ENCLOSED ATTACHMENTS:

- ELECTRICAL/MECHANICAL LOGS  
 SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION  
 GEOLOGIC REPORT  
 CORE ANALYSIS  
 DST REPORT  
 OTHER: OPS SUMMARY  
 DIRECTIONAL SURVEY

30. WELL STATUS:

POW

RECEIVED  
DEC 20 2012  
DIV. OF OIL, GAS & MINING

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 11/8/2012		TEST DATE: 11/11/2012		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL - BBL: 258	GAS - MCF: 136	WATER - BBL: 23	PROD. METHOD: GPU
CHOKE SIZE:	TBG. PRESS. 0	CSG. PRESS. 0	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL: 258	GAS - MCF: 136	WATER - BBL: 23	INTERVAL STATUS:

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)  
USED ON LEASE

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER (G1)	6,813

35. ADDITIONAL REMARKS (Include plugging procedure)

DEEPENING SPUD DATE 9/28/2012 \*\*SLOTTED LINER

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) BENNA MUTH

TITLE REGULATORY ASSISTANT - CONTRACT

SIGNATURE

*Benna Muth*

DATE 12/19/2012

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340  
Fax: 801-359-3940



QEP Energy Company

## Daily Activity and Cost Summary

**Well Name: BRENNAN 10 (19-7S-21E)**

API 43-047-32771		Surface Legal Location 019007S021E27		Field Name BRENNAN BOTTOM		State UTAH		Well Configuration Type Horizontal	
Ground Elevation (ft) 4,691.9		Casing Flange Elevation (ft) 4,691.90		Current KB to GL (ft) 16.00		Current KB to CF (ft) 16.00		Spud Date 1/18/1996 00:00	
Job Category Drilling		Primary Job Type RE-ENTER			Secondary Job Type DEEPENING			Objective	
Start Date 9/22/2012					Job End Date 10/18/2012				

Purpose  
Summary

Contractor Aztec Drilling		Rig Number AZTEC 950		Rig Type ROTARY RIG	
------------------------------	--	-------------------------	--	------------------------	--

DOL	Start Date	Summary
1.0	8/1/2012	INITIAL COSTS
2.0	9/22/2012	RIG DOWN AND MOVE 68 MILES WITH WESTROC TRUCKING
3.0	9/23/2012	RIG MOVE 10 HR, RIG UP 4 HR, RIG REPAIR 10 HR
4.0	9/24/2012	RIG REPAIR (WORKING ON DRAW TOOL)
5.0	9/25/2012	RIG REPAIR (WORKING ON DRAW TOOL), NIPPLE UP BOPE,
6.0	9/26/2012	RIG REPAIR 12 HR, PRESSURE TEST BOP 5.5 HR, R/U DRILL FLOOR 1 HR, R/U CASERS TO P/U DRILL STRING 1 HR, P/U DRILL STRING 4.5 HR
7.0	9/27/2012	TRIP x 1 1/2, 15 HR, RIG REPAIR x 4, 4.5 HR, CIRCULATE 1.5 HR, HANDLE BHA 1.5 HR, GYRO & SET WHIPSTOCK 1.5 HR
8.0	9/28/2012	MILL WINDOW 7.5 HR, SURVEY 1.5 HR, CIRCULATE 1 HR, TRIP 8 HR, HANDLE BHA 2 HR, RIG SERVICE 0.5 HR, RIG REPAIR 1 HR, CUT DRILLING LINE 2 HR, MISCELLANEOUS (INSTALL CORROSION RING) 0.5 HR
9.0	9/29/2012	DIRECTIONAL DRILL 3 HR, SURVEY 2 HR, ORIENT DIRECTIONAL TOOLS 1.5 HR, TRIP 8.5 HR, LD/PU BHA 3.5HR, LOG 2 HR, WAIT ON ORDERS 2 HR, WAIT ON EQUIPMENT 1.5 HR
10.0	9/30/2012	TRIP x (1 1/2) 6.5 HR, RUN GYRO AND SET WHIP STOCK 3 HR, MILL WINDOW 8 HR, CIRCULATE 1 HR, LD/PU BHA 2 HR, RIG SERVICE 0.5 HR, ORIENT DIRECTIONAL TOOL 2 HR, DIRECTIONAL DRILL 1 HR
11.0	10/1/2012	DIRECTIONAL DRILL 10 HR, SURVEY 4.5 HR, RIG SERVICE 0.5 HR, TRIP 7.5 HR, HANDLE BHA 1.5
12.0	10/2/2012	DIRECTIONAL DRILL 17.5 HR, RIG SERVICE 1 HR, SURVEY AND CONNECTIONS 2 HR, CIRCULATE 1 HR, TRIP 3 HR
13.0	10/3/2012	SLIDE DRILL, BUILD ANGE
14.0	10/4/2012	TRIP MOTOR & BIT
15.0	10/5/2012	DIRECTIONAL DRILL
16.0	10/6/2012	DIRECTIONAL DRILLING & SURVEYS
17.0	10/7/2012	DIRECTIONAL DRILLING & SURVEYS
18.0	10/8/2012	DIRECTIONAL DRILLING & SURVEYS
19.0	10/9/2012	DIRECTIONAL DRILL ,CIRC, TRIP F/MOTOR&BIT WORK BHA, TROUGH HOLE TIME DRILL FOR SIDETRACK
20.0	10/10/2012	TIME DRILL F/7491 TO 7520 BROKE OFF SIDE TRACK @ 7520 TROUGH HOLE F/7500 TO 7520 TIME DRILL F/ 7520 TO 7535 NO LUCK TROUGH HOLE FROM 7517 FT TO 7535 FEET TIME DRILL FROM 7535 TO 7545
21.0	10/11/2012	TIME DRILL FROM 7545 TO 7570 SLIDE FROM 7570 TO 7607 DIRECTIONAL DRILL FROM 7607 TO 7630 CIRC SAMPLES DRILL F/ 7630 TO 7644 RIG SERVICE DIRECTIONAL DRILL FROM 7644 TO 7804
22.0	10/12/2012	DIRECTIONAL DRILL FROM 7807 TO 8445 LOST APPROX 250 TO 300 BBL'S TO THE WELL
23.0	10/13/2012	DIRECTIONAL DRILL FROM 8445 FEET TO 8941 T.D.
24.0	10/14/2012	T.O.O.H, LAY DOWN DIRECTIONAL TOOLS. P/U REAMER ASSEMBLY. T.I.H., REAM F/6100 T/7330
25.0	10/15/2012	REAM FROM 7330 TO 8936 FT PUMP WEIGHTED HIGH VIS SWEEP TO SURFACE SHORT TRIP TO THE WINDOW
26.0	10/16/2012	TRIP OUT FOR 3 1/2 " LINNER L/D REAMMING ASSEMBLY RIG UP CAASING CREW & RUN 94 JT'S OF CASING PICK UP 30 3 1/2" DRILL COLLARS AND TRIN IN THE HOLE WITH THE LINNER LAND LINNER @ 8900 FEET TOP OF LINNER @ 5902 FEET. DISPLACE HOLE WITH KCL WATER . LAY DOWN DRILL PIPE
27.0	10/17/2012	TRIP 3 HR, SET CIBP 2.5 HR, N/D BOP 3.5 HR, RIG DOWN 15 HR
28.0	10/18/2012	
29.0	10/19/2012	
30.0	10/20/2012	
31.0	10/21/2012	
32.0	10/22/2012	
33.0	10/23/2012	
34.0	10/24/2012	
35.0	10/25/2012	



QEP Energy Company

### Daily Activity and Cost Summary

**Well Name: BRENNAN 10 (19-7S-21E)**

API 43-047-32771		Surface Legal Location 019007S021E27		Field Name BRENNAN BOTTOM		State UTAH		Well Configuration Type Horizontal	
Ground Elevation (ft) 4,691.9		Casing Flange Elevation (ft) 4,691.90		Current KB to GL (ft) 16.00		Current KB to CF (ft) 16.00		Spud Date 1/18/1996 00:00	
Final Rig Release 10/17/2012 15:00									
Summary									
DOL	Start Date								
36.0	10/26/2012								
37.0	10/27/2012								
38.0	10/28/2012								
39.0	10/29/2012								

Definitive Survey

<b>Co:</b> Native Navigation	<b>Units:</b> Feet, °, ″/100ft	<b>VS Az:</b> 225.94	<b>Method:</b> Minimum Curvature
<b>Drillers:</b> Hartman / Wardell	<b>Elevation:</b> 4707.90	<b>Map System:</b> St Plane, NAD83	
<b>Well Name:</b> Brennan 10	<b>Northing:</b> 7248035.11	<b>Latitude:</b> 40.202200	
<b>Location:</b> Utah, County	<b>Easting:</b> 2172092.61	<b>Longitude:</b> -109.596339	

**QEP Energy: Brennan 10 Sidetrack 1 Svys**

No.	MD	CL	Inc.	Azi.	TVD	VS	+N/S-	+E/W-	BR	WR	DLS	Comments
1	7523.00	0.00	91.50	228.10	6522.24	1258.54	-921.21	-859.88				Tie in
2	7546.00	23.00	88.30	229.00	6522.28	1281.51	-936.43	-877.12	-13.91	3.91	14.45	Native Navigation
3	7577.00	31.00	85.10	231.40	6524.06	1312.37	-956.24	-900.89	-10.32	7.74	12.89	Native Navigation
4	7609.00	32.00	87.60	230.70	6526.10	1344.18	-976.31	-925.72	7.81	-2.19	8.11	Native Navigation
5	7640.00	31.00	91.00	231.90	6526.48	1375.03	-995.69	-949.91	10.97	3.87	11.63	Native Navigation
6	7672.00	32.00	91.60	230.60	6525.75	1406.89	-1015.72	-974.86	1.87	-4.06	4.47	Native Navigation
7	7704.00	32.00	92.50	230.50	6524.61	1438.76	-1036.04	-999.55	2.81	-0.31	2.83	Native Navigation
8	7735.00	31.00	93.10	231.50	6523.10	1469.60	-1055.52	-1023.61	1.94	3.23	3.76	Native Navigation
9	7767.00	32.00	89.80	230.10	6522.29	1501.47	-1075.74	-1048.40	-10.31	-4.38	11.20	Native Navigation
10	7799.00	32.00	89.90	230.40	6522.37	1533.38	-1096.20	-1073.00	0.31	0.94	0.99	Native Navigation
11	7830.00	31.00	89.80	230.60	6522.45	1564.28	-1115.92	-1096.92	-0.32	0.64	0.72	Native Navigation
12	7862.00	32.00	90.20	230.90	6522.45	1596.17	-1136.16	-1121.70	1.25	0.94	1.56	Native Navigation
13	7894.00	32.00	91.30	230.40	6522.03	1628.06	-1156.45	-1146.45	3.44	-1.56	3.78	Native Navigation
14	7925.00	31.00	91.00	230.10	6521.41	1658.97	-1176.27	-1170.28	-0.97	-0.97	1.37	Native Navigation
15	7956.00	31.00	91.00	229.50	6520.87	1689.89	-1196.28	-1193.95	0.00	-1.94	1.94	Native Navigation
16	7988.00	32.00	90.80	229.20	6520.37	1721.83	-1217.12	-1218.23	-0.63	-0.94	1.13	Native Navigation
17	8020.00	32.00	89.90	228.80	6520.17	1753.78	-1238.11	-1242.38	-2.81	-1.25	3.08	Native Navigation
18	8051.00	31.00	90.40	229.60	6520.09	1784.73	-1258.37	-1265.84	1.61	2.58	3.04	Native Navigation
19	8083.00	32.00	91.20	229.70	6519.64	1816.66	-1279.08	-1290.23	-2.50	0.31	2.52	Native Navigation
20	8114.00	31.00	90.60	229.00	6519.15	1847.60	-1299.28	-1313.74	-1.94	-2.26	2.97	Native Navigation
21	8146.00	32.00	90.80	229.60	6518.76	1879.55	-1320.14	-1338.00	0.62	1.87	1.98	Native Navigation
22	8178.00	32.00	90.60	228.90	6518.37	1911.49	-1341.03	-1362.24	-0.63	-2.19	2.28	Native Navigation
23	8209.00	31.00	90.50	229.10	6518.08	1942.44	-1361.36	-1385.64	-0.32	0.64	0.72	Native Navigation
24	8241.00	32.00	90.00	229.10	6517.94	1974.39	-1382.32	-1409.82	-1.56	0.00	1.56	Native Navigation
25	8273.00	32.00	90.90	230.00	6517.68	2006.33	-1403.08	-1434.17	2.81	2.81	3.98	Native Navigation
26	8304.00	31.00	90.70	230.10	6517.25	2037.25	-1422.98	-1457.94	-0.65	0.32	0.72	Native Navigation
27	8336.00	32.00	90.80	230.60	6516.83	2069.15	-1443.40	-1482.57	0.31	1.56	1.59	Native Navigation
28	8368.00	32.00	90.20	230.50	6516.55	2101.04	-1463.73	-1507.28	-1.88	-0.31	1.90	Native Navigation
29	8400.00	32.00	89.60	230.40	6516.61	2132.94	-1484.10	-1531.96	-1.88	-0.31	1.90	Native Navigation
30	8430.00	30.00	91.10	230.20	6516.43	2162.86	-1503.27	-1555.04	5.00	-0.67	5.04	Native Navigation
31	8462.00	32.00	91.30	230.40	6515.76	2194.76	-1523.70	-1579.65	0.62	0.62	0.88	Native Navigation
32	8494.00	32.00	91.80	231.10	6514.89	2226.63	-1543.94	-1604.42	1.56	2.19	2.69	Native Navigation
33	8525.00	31.00	91.60	231.40	6513.97	2257.49	-1563.34	-1628.59	-0.65	0.97	1.16	Native Navigation
34	8557.00	32.00	91.20	231.40	6513.19	2289.33	-1583.30	-1653.59	-1.25	0.00	1.25	Native Navigation
35	8588.00	31.00	90.90	231.80	6512.62	2320.17	-1602.55	-1677.88	-0.97	1.29	1.61	Native Navigation



Definitive Survey

Co: Native Navigation		Units: Feet, °, ″/100ft		VS Az: 225.94		Method: Minimum Curvature						
Drillers: Hartman / Wardell		Elevation: 4707.90		Map System: St Plane, NAD83								
Well Name: Brennan 10		Northing: 7248035.11		Latitude: 40.202200								
Location: Unintah, County		Easting: 2172092.61		Longitude: -109.596339								
QEP Energy: Brennan 10 Svys												
No.	MD	CL	Inc.	Azi.	TVD	VS	+N/S-	+E/W-	BR	WR	DLS	Comments
1	5916.00	0.00	2.36	170.73	5913.46	66.51	-131.73	34.93				Tie in point from gyros
2	5993.00	77.00	1.73	251.01	5990.42	68.46	-133.67	34.09	-0.82	104.26	3.48	native gyro
3	6009.00	16.00	4.27	286.92	6006.40	68.97	-133.58	33.29	15.87	224.44	19.02	Native Navigation
4	6038.00	29.00	8.22	294.47	6035.22	70.25	-132.41	30.37	13.62	26.03	13.88	Native Navigation
5	6052.00	14.00	8.50	298.60	6049.08	70.93	-131.50	28.55	2.00	29.50	4.73	Native MWD
6	6084.00	32.00	7.80	301.90	6080.75	72.16	-129.22	24.63	-2.19	10.31	2.63	Native Navigation
7	6116.00	32.00	9.10	281.30	6112.41	74.13	-127.57	20.30	4.06	-64.38	10.22	Native Navigation
8	6147.00	31.00	13.00	268.90	6142.84	78.07	-127.16	14.41	12.58	-40.00	14.66	Native Navigation
9	6179.00	32.00	18.50	258.50	6173.63	84.99	-128.24	5.83	17.19	-32.50	19.25	Native Navigation
10	6210.00	31.00	23.10	245.70	6202.61	94.87	-131.73	-4.55	14.84	-41.29	20.78	Native Navigation
11	6242.00	32.00	27.90	235.40	6231.50	108.18	-138.57	-16.44	15.00	-32.19	20.37	Native Navigation
12	6274.00	32.00	29.80	227.50	6259.54	123.52	-148.20	-28.47	5.94	-24.69	13.30	Native Navigation
13	6305.00	31.00	31.00	227.00	6286.28	139.20	-158.85	-39.99	3.87	-1.61	3.96	Native Navigation
14	6337.00	32.00	32.50	227.60	6313.49	156.04	-170.26	-52.37	4.69	1.87	4.79	Native Navigation
15	6368.00	31.00	33.70	226.50	6339.46	172.96	-181.80	-64.76	3.87	-3.55	4.33	Native Navigation
16	6400.00	32.00	36.00	226.30	6365.72	191.24	-194.41	-78.00	7.19	-0.63	7.20	Native Navigation
17	6431.00	31.00	38.20	222.40	6390.44	209.93	-207.79	-91.05	7.10	-12.58	10.39	Native Navigation
18	6463.00	32.00	41.10	220.00	6415.08	230.27	-223.15	-104.49	9.06	-7.50	10.25	Native Navigation
19	6495.00	32.00	45.70	223.90	6438.33	252.19	-239.47	-119.20	14.37	12.19	16.63	Native Navigation
20	6533.00	38.00	51.60	226.30	6463.43	280.70	-259.58	-139.41	15.53	6.32	16.23	MWD Change
21	6565.00	32.00	61.60	226.90	6481.02	307.38	-277.91	-158.80	31.25	1.87	31.29	Native Navigation
22	6598.00	33.00	72.20	229.80	6493.95	337.66	-298.02	-181.47	32.12	8.79	33.12	Native Navigation
23	6629.00	31.00	74.80	230.80	6502.75	367.29	-317.01	-204.34	8.39	3.23	8.94	Native Navigation
24	6660.00	31.00	76.50	230.20	6510.44	397.23	-336.11	-227.51	5.48	-1.94	5.80	Native Navigation
25	6692.00	32.00	79.60	230.50	6517.06	428.44	-356.08	-251.61	9.69	0.94	9.73	Native Navigation
26	6723.00	31.00	84.50	230.50	6521.35	459.03	-375.61	-275.30	15.81	0.00	15.81	Native Navigation
27	6755.00	32.00	87.00	229.80	6523.72	490.86	-396.05	-299.79	7.81	-2.19	8.11	Native Navigation
28	6786.00	31.00	87.90	228.50	6525.10	521.77	-416.31	-323.22	2.90	-4.19	5.10	Native Navigation
29	6818.00	32.00	88.20	227.80	6526.19	553.73	-437.65	-347.04	0.94	-2.19	2.38	Native Navigation
30	6850.00	32.00	90.90	227.50	6526.44	585.71	-459.20	-370.69	8.44	-0.94	8.49	Native Navigation
31	6891.00	41.00	91.30	226.30	6525.65	626.70	-487.21	-400.62	0.98	-2.93	3.08	BHA Change
32	6922.00	31.00	92.20	226.70	6524.70	657.68	-508.54	-423.09	2.90	1.29	3.18	Native Navigation
33	6954.00	32.00	91.30	227.10	6523.73	689.66	-530.39	-446.45	-2.81	1.25	3.08	Native Navigation
34	6986.00	32.00	89.60	226.80	6523.48	721.66	-552.24	-469.83	-5.31	-0.94	5.39	Native Navigation
35	7017.00	31.00	90.40	226.30	6523.48	752.65	-573.55	-492.34	2.58	-1.61	3.04	Native Navigation
36	7049.00	32.00	90.30	226.10	6523.28	784.65	-595.70	-515.43	-0.31	-0.63	0.70	Native Navigation



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  5. LEASE DESIGNATION AND SERIAL NUMBER: ML-3068
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  7. UNIT or CA AGREEMENT NAME: BRENNAN BOTTOM
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: BRENNAN 10
2. NAME OF OPERATOR: QEP ENERGY COMPANY	9. API NUMBER: 43047327710000
3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, Ut, 84078	PHONE NUMBER: 303 308-3068 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0660 FNL 1980 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 19 Township: 07.0S Range: 21.0E Meridian: S	9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM  COUNTY: UINTAH  STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 10/28/2014  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input checked="" type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

QEP ENERGY COMPANY REQUESTS APPROVAL TO RECOMPLETE THE BRENNAN 10 BY ADDING ADDITIONAL PERFORATIONS TO THE GREEN RIVER FORMATION. SEE ATTACHED PROCEDURES.

**Approved by the**  
**November 13, 2014**  
**Oil, Gas and Mining**

**Date:** \_\_\_\_\_

**By:** Dark Quif

<b>NAME (PLEASE PRINT)</b> Benna Muth	<b>PHONE NUMBER</b> 435 781-4320	<b>TITLE</b> Regulatory Assistant
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/28/2014	

QEP Energy requests approval to recomplete the Brennan 10 by adding additional perforations to the Green River formation as follows:

1. Set a CFP at 5890'.
2. Stage 1:
  - a. 5863'-5866', 3spf, frac with crosslink fluid.
  - b. 5813'-5815', 3spf, frac with crosslink fluid.
  - c. 5771'-5773', 3spf, frac with crosslink fluid.
  - d. 5748'-5749', 3spf, frac with crosslink fluid.
  - e. 5715'-5716', 3spf, frac with crosslink fluid.
  - f. 5691'-5692', 3spf, frac with crosslink fluid.
  - g. 5673'-5674', 3spf, frac with crosslink fluid.
  - h. 5660'-5661', 3spf, frac with crosslink fluid.
  - i. 5639'-5640', 3spf, frac with crosslink fluid.
  - j. 5625'-5626', 3spf, frac with crosslink fluid.
  - k. 5607'-5608', 3spf, frac with crosslink fluid.
  - l. 5597'-5598', 3spf, frac with crosslink fluid.
3. Flow well.
4. Drill up frac plug (5890') after the frac fluid is recovered to restore existing production.